

JOHN KERRY FEDERAL FUNDING REQUESTS FY2011

Potential Recipient: 1366

Location: Lexington, Massachusetts

Purpose: Solar Direct Wafer

Request: \$2 million

Project Description: The requested funding would be used to support the creation of an 80% cheaper silicon photovoltaic (PV) or solar wafers making solar power affordable in many regions without subsidies.

Potential Recipient: 2I's Inc

Location: Walpole, MA

Purpose: Reduced Cost Supply Readiness

Request: \$3,200,000

Project Description: Requested funds will be used to increase the breadth and depth of analysis on these weapon systems and to expand into mature weapon systems that are approaching or past their expected service life.

Potential Recipient: A123Systems, Inc.

Location: Watertown, MA

Purpose: Nanophosphate Battery Storage for the Smart Grid and V2G Integration

Request: 4,000,000

Project Description: The purpose of this demonstration is to build on the early success with large-scale grid battery systems and to accelerate the development of smart grid technologies which enable vehicle-to-grid connectivity.

Potential Recipient: A Child is Missing

Location: Statewide

Purpose: Help find missing children and elderly adults

Request: \$175,000

Project Description: This funding would support A Child is missing - an organization that assists law enforcement agencies across the country, including law enforcement agencies in Massachusetts, in the first few hours a child, or an elderly adult, is reported missing.

Potential Recipient: Advanced Electron Beams

Location: Wilmington, Massachusetts

Purpose: Research, Develop, and Prototyping of Compact Electron Beams for Energy Efficient Processes

Request: \$1.2 million

Project Description: The requested funding would go towards a program that will accelerate the development of clean manufacturing processes and enable domestic manufacturers to become more competitive, create green jobs, and contribute toward meeting state and national energy and environmental goals.

Potential Recipient: AdMeTech Foundation

Location: Boston, MA

Purpose: Advanced diagnostic and therapeutic digital technologies

Request: \$4,000,000

Project Description: The requested funds will permit the continuation of research designed to discover and test novel imaging methods and technologies critical for early detection of prostate cancer. This would directly benefit thousands of active duty military personnel and millions of veterans, and their families.

Potential Recipient: Aerospace Missions Corporation

Location: Cambridge, MA

Purpose: Miniaturized Sensors for Small and Tactical Unmanned Aerial Vehicles (MINISENS)

Request: \$2,000,000

Project Description: This funding will be utilized to continue the development of Miniaturized Sensors for Small and Tactical UAVs (MINISENS). The development of MINISENS are necessary because the United States Army's present and planned fleet of small and tactical Unmanned Aerial Vehicles (UAVs) has a requirement for sensors with broad applicability across more than one payload category or mission area.

Potential Recipient: The Albert Schweitzer Fellowship (ASF) at Beth Israel Deaconess Medical Center (BIDMC)

Location: Albert Schweitzer Hospital, (Hospital Albert Schweitzer) Lambarene, Gabon, Africa

Purpose: United States – Schweitzer Lambarene Centennial Project

Request: \$1 million

Project Description: The goal of this project is to engage the U.S. in supporting the world-class clinical and public health activities of the Albert Schweitzer Hospital in HIV/AIDS, TB, malaria, and maternal-child health, so that by the Hospital's 100th anniversary in 2013, it is a widely-celebrated and influential model of U.S.-sponsored excellence in health care in sub-Saharan Africa and a training site for health care professionals from across the continent.

Potential Recipient: ALS Research Program at the Department of Defense

Location: Nationwide

Purpose: funding to support translating research into treatments for ALS

Request: \$15 million

Project Description: Provides support to ALS researchers in the private sector through peer-reviewed competitive grants to ensure that the most promising research moves forward.

Potential Recipient: ALS Therapy Development

Location: Cambridge, MA

Purpose: ALS Therapy Development Institute Gulf War Research

Request: \$4,800,000

Project Description: Continued funding of this program will allow researchers to identify physiological pathways and molecules in animal models of disease progression, compare animal gene expression to that of humans by employing the largest database ever compiled of animal and ALS patient samples, and operate a large scale validation program using profiling technologies that will modulate gene expression in those genes determined to be candidates for disease effect.

Potential Recipient: America Superconductor

Location: Devens, Massachusetts

Purpose: High Temperature Superconductor (HTS) Resilient Electric Grid Cable

Request: \$6 million

Project Description: The requested funding would be used for the design, fabrication and installation of an HTS FCL cable in the power grid to demonstrate the features of a Resilient Electric Grid.

Potential Recipient: Animal Care under Animal Plant Health Inspection Service's Emergency Management Systems.

Location: Nationwide

Purpose: to protect animals during disasters

Request: \$1,017,000

Project Description: Hurricanes Katrina and Rita demonstrated that many people refuse to evacuate if they are forced to leave their pets behind. This funding will help the Animal Care division prepare for, and respond to, animal issues during natural disasters and incorporate lessons learned from previous disasters.

Potential Recipient: Animal Plant Health Inspection Service at the United States Department of Agriculture

Location: Nationwide

Purpose: Investigative and Enforcement Services

Request: \$14,213,000

Project Description: This funding will support investigations of alleged violations of animal welfare laws and the initiation of appropriate enforcement actions.

Potential Recipient: Animal Plant Health Inspection Service at the United States Department of Agriculture

Location: Nationwide

Purpose: Enforce the Animal Welfare Act

Request: \$22,333,000

Project Description: This funding will help improve inspections by Animal Care of more than 12,000 sites, including commercial breeding facilities, laboratories, zoos, circuses, and airlines to ensure compliance with Animal Welfare Act standards.

Potential Recipient: Apollo Diamond

Location: Holliston, MA

Purpose: Diamond Lens Elements for High Powered Laser Advanced Weapons Technology, High Energy Laser Technology

Request: \$3,000,000

Project Description: This project's focus is on development of 25mm (1 inch) single crystal diamond substrates for use in the Army's High Energy Laser (HEL) program. Large, single crystal diamonds have been desired for advanced technology programs for decades.

Potential Recipient: Army Corps of Engineers

Location: Brookline and Boston, Massachusetts

Purpose: Muddy River restoration

Request: \$7 million

Project Description: This funding will support an environmental restoration project that is needed to remove sediment that has made Boston's Back Bay Fens a flood control hazard in recent decades.

Potential Recipient: Arradance Inc.

Location: Sudbury, MA

Purpose: Nanofilm Coating of Microchannel Plates to enhance Gen III Night Vision Device Performance

Request: \$3,000,000

Project Description: The objective of this project is to optimize, implement, and deploy a nanofilm technology to the military night vision industry that will enable filmless night vision image intensifiers. Implementation of this technology will improve resolution, signal-to-noise figure, and reduce haze. There is also evidence that this process will lead to increased tube yield, shorter processing time, and a simpler manufacturing process.

Potential Recipient: Arteriocyte Inc.

Location: Hopkinton, MA

Purpose: Infection Prevention Program for Battlefield Wounds

Request: \$4,000,000

Project Description: The military has a dire need for improved wound healing that effectively prevents and treats infection. This funding would be used to continue clinical evaluations and accelerate testing to bring more effective infection prevention methods to the battlefield sooner.

Potential Recipient: Aspen Aerogels

Location: Northborough, MA

Purpose: High-Durability, Aerogel Insulated Navy Dive Suits

Request: \$5,200,000

Project Description: This project would fund the development of a high-durability aerogel insulated dry suit undergarment that would extend the mission life of Navy dive operations. Navy Special Operations divers are often submerged in water temperatures for several hours. Manned testing by the U.S. Navy Experimental Diving Unit showed a 43% increase in cold water dive durations by using aerogel insulation compared to current dive garments.

Potential Recipient: Aspen Aerogels

Location: Northborough, Massachusetts

Purpose: Fluid Flow Optimization of Aerogel Blanket Manufacturing Process

Request: \$2 million

Project Description: This funding will help lower the cost of the aerogel manufacturing process enabling access to the building and construction industry at a reduced cost and with less energy consumed.

Potential Recipient: Assistance to Firefighters Grants (AFG)

Location: Nationwide

Purpose: Firefighter and emergency response training and equipment

Request: \$420 million

Project Description: According to the most recent needs assessment by the National Fire Protection Association, more than half of the nation's fire departments lack key equipment, prevention programs, training and staffing to achieve widely recognized response-time guidelines. This funding will be used to support firefighting and emergency response training and equipment.

Potential Recipient: Autism Spectrum Disorders research at the Department of Defense

Location: Nationwide

Purpose: Support research for treatment and causes of Autism Spectrum Disorders

Request: \$10 million

Project Description: Provides funding for research on the potential causes of Autism Spectrum Disorders and improvements in treatment options.

Potential Recipient: Azima DLI

Location: Woburn, MA

Purpose: Expansion of ICAS Vibration Monitoring System Program

Request: \$4,200,000

Project Description: This project will expand an existing Advanced Machinery Vibration Program from two DDG class ships to two DDC class ships.

Potential Recipient: Azonix

Location: Billerica, MA

Purpose: Laser Phalanx

Request: \$12,000,000

Project Description: The Navy intends to continue procurement of the Phalanx anti-ship missile defense system. The Navy's plan is to conduct risk reduction test and evaluation on laser-Phalanx technologies. Funding of this request will advance research and development of tracking and fire control enhancements and integrate the Phalanx Laser assembly.

Potential Recipient: Bandgap Engineering Inc.

Location: Woburn and Natick, MA

Purpose: High Efficiency Solar PV for Military Applications

Request: \$2,000,000

Project Description: Funding will be applied to research that will lead to highly efficient, lightweight, portable solar cells that can be utilized by military personnel. This will provide the soldier with a lighter, more discrete power source that reduces generator use and the required logistical fuel tail. The result will be more efficient, more effective, and safer military operations.

Potential Recipient: Town of Barnstable

Location of project: Barnstable, Massachusetts

Purpose: Hyannis Youth and Community Center (HYCC) educational programs

Request: \$250,000

Project Description: The requested funding would go toward the development of educational programming and the procurement of education equipment at the Hyannis Youth and Community Center (HYCC).

Potential Recipient: Town of Barnstable

Location of project: Barnstable, Massachusetts

Purpose: Museum Projects

Request: \$250,000

Project Description: The requested funding would be used to support educational and cultural museums in Barnstable. Funding would be used to expand their collections and hold exhibits to help educate the community about the historical and cultural heritage of the region.

Potential Recipient: BBN Technologies

Location: Cambridge, MA

Purpose: Low Profile Acoustic GDS for Combat Vehicles

Request: \$3,000,000

Project Description: Funding for this project will be utilized to incorporate novel acoustic and signal processing techniques to reduce the size of the external assembly while maintaining Boomerang's extended localization performance of the System on High Noise Platforms.

Potential Recipient: Becker College

Location of project: Worcester, Massachusetts

Purpose: Bilingual Nursing Training Initiative

Request: \$750,000

Project Description: The requested funds would be used to research, develop, and implement a preventive healthcare educational initiative aimed at multi-cultural and diverse residents including underserved populations. The funds would provide more bilingual nursing graduates in Central Massachusetts and address growing preventative health issues among bilingual and multicultural populations in the United States.

Potential Recipient: Best Buddies Massachusetts

Location of project: Statewide

Purpose: Best Buddies Empowerment for People with Intellectual Disabilities

Request: \$250,000

Project Description: The requested funding would support the Best Buddies Empowerment for People with Intellectual Disabilities Project in Massachusetts. This is a national initiative with the goal of empowering people with intellectual and developmental disabilities (IDD) through social integration and meaningful employment while simultaneously raising public awareness of the need for and benefits of social inclusion.

Potential Recipient: Bionostics Inc.

Location: Devens, MA

Purpose: Rapid Test for the Early Detection of Neurological Conditions

Request: \$3,000,000

Project Description: The Rapid Test for the Early Detection of Neurological Conditions will develop a robust rapid test which will screen for biomarkers predictive or diagnostic of neurological conditions such as stroke, and will support prototype production for clinical evaluations to further support clinical use of these assays for the evaluation and treatment of

subjects. Once developed, this test platform will be capable of modification to create forward deployable rapid tests for other conditions such as brain injury and cardiac disease.

Potential Recipient: Biotricity Medical Inc.

Location: Hopkinton, MA

Purpose: Multi-State Medical Research Consortium for Veteran Eye Repair to Prevent Blindness

Request: \$8,000,000

Project Description: This funding will be utilized to further develop biomarker identification that will provide an earlier warning of debilitating disease and to assist in ocular wound healing and treatment for our war fighters who have been blinded or have suffered visual impairment.

Potential Recipient: Black-I Robotics

Location: Tyngsboro, MA

Purpose: Affordable Robust Mid-Sized Unmanned Ground Vehicle (ARMS UGV)

Request: \$4,000,000

Project Description: This funding will be utilized to further the development of an Affordable Robust Mid-Sized (ARMS) Unmanned Ground Vehicle. The ARMS Unmanned Ground Vehicle chassis is low cost with a high capacity payload that allows it to carry weapons and communications systems that are normally carried by personnel.

Potential Recipient: Block Engineering

Location: Marlborough, MA

Purpose: Standoff Detection of Emerging Threats

Request: \$3,700,000

Project Description: Requested funds would support the continued development of a man portable chemical agent detection system. Research and development of a man portable chemical agent detection system meets requirements set forth by the Department of Defense to modify a detection system that scans a surface for residues of explosives and explosive precursors into a portable system.

Potential Recipient: Blood Cancer Research Program at the Defense Department

Location: Nationwide

Purpose: fund a blood cancer research program as part of the Congressionally Directed Medical Research Program (CDMRP) at the Department of Defense

Request: \$10 million

Project Description: the blood cancer research program would award competitive grants for understanding blood cancers and developing innovative treatment options

Potential Recipient: Boston College

Location: Chestnut Hill, Massachusetts

Purpose: Institute for Integrated Sciences

Request: \$4.5 million

Project Description: This funding will go towards the creation of an Institute for Integrated Sciences that will encompass a Center for Molecular Biology, a center for Synthetic Organic Chemistry and a Center for Complex materials.

Potential Recipient: Boston College

Location: Chestnut Hill, Massachusetts

Purpose: Irish Institute at Boston College

Request: \$1,020,000

Project Description: This funding will support the Irish Institute - an internationally recognized economic development and public service exchange program dedicated to promoting peace and prosperity in Ireland and Northern Ireland.

Potential Recipient: Boston College

Location: Chestnut Hill, Massachusetts

Purpose: Weston Observatory

Request: \$500,000

Project Description: These funds would be used to develop a reliable system to identify the location and magnitude of all earthquakes in New England and the surrounding areas.

Potential Recipient: City of Boston Economic Development and Industrial Corporation

Location of project: Boston, Massachusetts

Purpose: Green Opportunities

Request: \$500,000

Project Description: The requested funding would support a green jobs re-entry program serving young adults age 18 to 30. Services will start prior to release, and will include intensive case management, remedial education, transitional job placement, job training in a range of green options, and, when ready, placement into unsubsidized employment and/or adult education.

Potential Recipient: Boston Fire Department

Location: Quincy, Massachusetts

Purpose: Moon Island Sea Wall Repair

Request: \$1,785,712

Project Description: The requested funds would be used to repair and stabilize approximately 300 feet, or one quarter of the Moon Island Fire Training Academy seawall.

Potential Recipient: Boston Foundation for Sight (BFS)

Location of project: Needham Heights, Massachusetts

Purpose: Sight-Restoring Digital Medical Equipment

Request: \$600,000

Project Description: BFS would use the requested funding to purchase digital medical equipment that can generate high precision custom optical surfaces on the Boston Ocular Surface Prosthesis designed to correct the high order aberrations in individual eyes. This technology helps restore sight to those blinded by certain diseases, disorders and injuries of the eye, including wounded soldiers returning from Iraq and Afghanistan.

Potential Recipient: Boston Medical Center

Location of project: Boston, Massachusetts

Purpose: Boston Center for Refugee Health and Human Rights

Request: \$250,000

Project Description: The requested funding would be used to provide comprehensive health care for refugees and survivors of torture and related trauma, coordinated with legal aid and social services; to educate and train agencies and professionals who serve these communities; to advocate for the promotion of health and human rights in the USA and worldwide; and to conduct clinical, epidemiological, and legal research for the better understanding and promotion of health and quality of life for survivors of torture and related trauma.

Potential Recipient: Boston Public Health Commission

Location: Boston, Massachusetts

Purpose: Wyman Reentry Center for Women

Request: \$750,000

Project Description: The requested funding would be used to build on the successful reentry programming by launching a women's reentry program to help formerly incarcerated women find employment, stable housing, and social supports.

Potential Recipient: Boston University Photonics Center

Location: Boston MA

Purpose: Compact Optical Biothreat Rapid Analyzer for Military Applications

Request: \$6,300,000

Project Description: Requested funds will be utilized to address the emerging requirement to address force protection against chemical, biological, radiological, and nuclear threats.

Additionally, this funding will complete work on a prototype which detects viral agents, and another which can be used to help in the diagnosis and treatment of traumatic brain injury.

Potential Recipient: Bottom Line

Location of project: Boston and Worcester, Massachusetts

Purpose: College Access and College Success Program

Request: \$250,000

Project Description: The requested funding would be used to create four new full-time positions at Bottom Line who will serve an additional 200 low-income and first-generation students as they apply to college and work toward a degree. Bottom Line helps students get in to college, continues to provide guidance for up to six years so that they can graduate, and provides the tools for our students to begin successful careers and prosperous lives.

Potential Recipient: Brandeis University

Location of project: Waltham, Massachusetts

Purpose: Broadening Access to Science: Science Posse and Let's Get Ready Program

Request: \$250,000

Project Description: The requested funding would be used to start a new Science Posse program by expanding the present one to include a larger group of students in collaboration with another, locally based program, Let's Get Ready. Let's Get Ready utilizes college students as mentors for high school juniors to help them prepare for the college application process.

Potential Recipient: Brandeis University

Location of project: Waltham, Massachusetts

Purpose: Science Instructional Facility for Professional Master in Science in Biotechnology Program

Request: \$500,000

Project Description: The requested funding would be used for the acquisition of state-of-the-art equipment to create a facility in which they train students in the molecular and cellular techniques that are key to the life sciences industries. In addition, funds will be used to increase the interaction of students and faculty in the program with local professionals in the biotechnology and pharmaceutical industries as well as support the recruitment of under-represented minority and economically disadvantaged students into the program.

Potential Recipient: Brigham and Women's Hospital/Partners HealthCare

Location of project: Statewide

Purpose: Prevention and Access to Care and Treatment (PACT) Project

Request: \$600,000

Project Description: With the requested funding the Prevention and Access to Care and Treatment (PACT) Project would continue to develop and expand its diabetes and chronic disease programs which build the capacity of organizations to use community health workers (CHWs) to coordinate the care of clients with severe chronic disease diagnoses and complex care needs. This model, which has been found to be clinically and cost effective, will be made available to other health care institutions wishing to employ community health workers in creating their patient-centered medical homes.

Potential Recipient: Brockton Area Private Industry Council, Inc.

Location: Brockton, Massachusetts

Purpose: The Gateway Project

Request: \$2 million

Project Description: The requested funding would be used to support the Gateway Program, a comprehensive transitional job training/reintegration program that addresses the specific education and workforce challenges of unemployed adult offenders.

Potential Recipient: Brockton Neighborhood Health Center (BNHC)

Location of project: Brockton, Massachusetts

Purpose: Brockton Neighborhood Health Center Expansion

Request: \$900,000

Project Description: The requested funding would be used to construct an additional floor to the existing community health center. The additional space will allow BNHC to serve an additional 2,000 patients and provide more than 10,000 visits in the first year with capacity to serve 6,000 new patients and 35,000 visits.

Potential Recipient: Brockton Police Department

Location: Brockton, Massachusetts

Purpose: Gunshot Location System Acquisition

Request: \$750,000

Project Description: Funding is being requested to purchase the ShotSpotter Gunshot Location System. Networked sensors will be placed at specific coordinates on buildings and telephone

poles throughout a two square mile area to accurately detect and locate the origin of gunshots and weapons-events.

Potential Recipient: Brookline Community Mental Health Center

Location of project: Brookline, Massachusetts

Purpose: Critical 'Mental Health Home' Services

Request: \$750,000

Project Description: The requested funding would be used to implement a 'mental health home' model as a coordinated response to the rapid increase in individuals seeking mental health services due to the recession—a situation that is compounded by years of declining reimbursements for mental health needs. Based on the medical home model that has been implemented by many community health centers, the mental health home increases access by coordinating care among mental health professionals, primary care providers, social service agencies and schools.

Potential Recipient: Busek Co. Inc.

Location: Natick, MA

Purpose: ESPA On-Orbit Maneuvering System

Request: \$2,500,000

Project Description: The requested funds would continue development of an advanced thruster system.

Potential Recipient: C/1-20th Special Forces Group

Location: Chicopee, MA

Purpose: Renovation of Chicopee, MA Armory

Request: \$1,554,000

Project Description: This project will renovate the Chicopee, MA Armory to accommodate the stationing of C/1-20th Special Forces Group.

Potential Recipient: Cape Cod Cranberry Growers Association

Location: Carver, Massachusetts

Purpose: Cranberry Conservation Planning

Request: \$600,000

Project Description: The requested funds will be used for cranberry conservation work helping farmers increase cranberry production while reducing its effects on the environment.

Potential Recipient: Cape Cod Cranberry Growers Association

Location: Carver, Massachusetts and Wisconsin

Purpose: Massachusetts and Wisconsin Cranberry Research Project Capital Funding

Request: \$3,800,000

Project Description: This funding would be used for the renovation of Massachusetts Cranberry Research Station and Purchase of Land for and Construction of Wisconsin Cranberry Research Station.

Potential Recipient: Cardiac Arrhythmia Syndromes Foundation (CASF)

Location of project: Boston, Massachusetts

Purpose: CASF Good Neighbor Healthy Heart Screening Initiative

Request: \$380,000

Project Description: The requested funding would be used on materials and equipment necessary for the Cardiac Arrhythmia Syndromes Foundation to execute a Good Neighbor Healthy Heart Screening Initiative to educate and train students and school personnel in several school districts in the 5th, 7th and 8th congressional districts of Massachusetts on the benefits of preparedness and prevention in reducing sudden cardiac arrest in the adolescent population.

Potential Recipient: Caring Health Center

Location of project: Springfield, Massachusetts

Purpose: New Campus Renovations

Request: \$3 million

Project Description: The requested funding would be used to renovate 3 historic buildings for medical and dental services and to expand jobs and services in the South End neighborhood.

Potential Recipient: Centers for Disease Control and Prevention

Project Location: Nationwide

Purpose: To add a question regarding sexual orientation and gender identity to the National Health Interview Survey (NHIS)

Request: \$2 million

Project Description: The inclusion of such a question would allow health researchers, LGBT community organizations, and government agencies to better assess the health and wellness issues impacting the LGBT community and individuals. In addition, it would allow both private and public funds to better target evidence-driven LGBT health programs.

Potential Recipient: Centers for Disease Control and Prevention's (CDC) Climate Change Program

Project Location: Nationwide

Purpose: To prepare a public health response to climate change

Request: \$15 million

Project Description: This funding will be used to build-up the expertise and capacity to address climate change and the particular threats it will pose to states and communities.

Potential Recipient: Center for Integration of Medicine and Innovative Technology

Location: Boston, MA

Purpose: Center for Integration of Medicine and Technology (CIMIT)

Request: \$25,000,000

Project Description: The primary focus of the Center for Integration of Medicine and Innovative Technology (CIMIT) is to improve wounded warrior care by bringing together clinicians and engineers in collaborative teams for the rapid and effective development of innovative technology and procedures.

Potential Recipient: Center for Technology Commercialization Inc.

Location: New Braintree, MA

Purpose: Northeast Regional DoD 1401 Technology Outreach Center

Request: \$10,000,000

Project Description: The requested funds will be utilized to enhance the collaboration between the Massachusetts State Police and the Department of Defense at the Northeast Regional DoD 1401 Technology Outreach Center. The continued development of this project will allow the State Police Academy Headquarters to better transition cutting-edge DoD technologies for use in the public safety and homeland security sectors.

Potential Recipient: Center for Technology Commercialization Inc.

Location: Westborough, Massachusetts

Purpose: Massachusetts Law Enforcement Technology and Training Support Center

Request: \$2 million

Project Description: This funding will be used to enhance Massachusetts' law enforcement capabilities through the utilization of advanced technology and training, and the incorporation of enhanced information sharing strategies and improved communications interoperability among public safety and law enforcement agencies throughout the Commonwealth of Massachusetts.

Potential Recipient: Center for Women & Enterprise

Location: Boston and Worcester, Massachusetts

Purpose: Survive and Thrive Small Business Training to Entrepreneurs program

Request: \$450,000

Project Description: This funding would help provide training on how to survive and thrive during a recession to new and existing businesses by pairing classroom instruction with strategic follow-up.

Potential Recipient: Chelsea Jewish Foundation's Leonard Florence Center for Living

Location of project: Chelsea, Massachusetts

Purpose: Facilities and Equipment for independent living demonstration

Request: \$365,000

Project Description: Requested funds would be used to allow elderly residents, including those with disabling conditions such as ALS, MS, and Parkinson's disease, individual mobility through automotive room controls and specialized transportation. This request will also help the Leonard Florence Center for Living expand programming nationwide.

Potential Recipient: Children's Hospital Boston

Location of project: Statewide

Purpose: Expansion of Mental Health Capacity in Massachusetts Schools (EMHCMS)

Request: \$750,000

Project Description: Children's Hospital Boston proposes to work together with partners from across the state to develop and implement a full scale assessment, training and professional development program for school personnel in Massachusetts designed to address the most pressing documented mental health needs. This project will include four components: needs assessment in targeted regions; professional development workshops; a state conference on school-based mental health; and increased awareness of and access to parental resources.

Potential Recipient: Children's Hospitals Graduate Medical Education (CHGME Program)

Project Location: Nationwide

Purpose: graduate medical education funding for our nation's independent children's teaching hospitals

Request: \$330 million

Project Description: This funding will provide independent children's teaching hospitals with federal support to train a large portion of the pediatric workforce and to sustain and improve their teaching programs.

Potential Recipient: Circor International, Inc

Location: Burlington, MA

Purpose: CH-47 Landing Gear System Product Enhancement

Request: \$7,400,000

Project Description: This funding will be utilized to improve reliability, maintainability, and safety for the CH-47 Chinook helicopter landing gear system.

Potential Recipient: Clark University

Project Location: Worcester

Purpose: Reducing Energy Consumption

Request: \$1 million

Project Description: This funding would be used for technology upgrades on campus to improve learning and conserve energy resources by upgrading and consolidating the energy management system into one centralized system.

Potential Recipient: Clean Water State Revolving Fund at the Environmental Protection Agency

Project Location: Nationwide

Purpose: To provide clean, safe water for our communities

Request: \$2.1 billion

Project Description: This funding would capitalize state clean water and drinking water loan programs to fund water quality protection projects for wastewater treatment, nonpoint source pollution control, and watershed and estuary management, as well as funding public water system infrastructure improvement projects.

Potential Recipient: Coastal Zone Management Program at the Department of Commerce

Location: Nationwide

Purpose: Balance coastal protection with coastal development

Request: \$112.4 million

Project Description: This funding will help reduce environmental impacts of coastal development, resolve conflicts between competing coastal uses, and provide critical assistance to local communities in coastal planning and resource protection.

Potential Recipient: Cobham Sensor Systems

Location: Lowell, MA

Purpose: Active Protection Threat Detection Sensor

Request: \$2,000,000

Project Description: Active Protection threat detection sensors help protect the mounted warfighter from explosive and missile threats. This funding will accelerate the engineering and

development of the sensor suite for vehicle installation and testing, accelerate interoperability testing with multiple vehicles, and integrate design for a variety of countermeasures.

Potential Recipient: College of Our Lady of the Elms

Location of project: Chicopee, Massachusetts

Purpose: For the construction of science facilities

Request: \$5 million

Project Description: Elms College seeks to build new teaching and research laboratories and classrooms for education of science, math, IT, and communication and speech disorder majors, as well as for students majoring in education to teach in these fields. The facility will additionally benefit non-science/math students in the laboratories and classrooms, and will provide meeting and study space for all Elms students.

Potential Recipient: Community Development Financial Institutions Fund (the Fund) at the Treasury Department

Location: Nationwide

Purpose: Funding for CDFI's

Request: \$300 million

Project Description: CDFIs provide capital, credit, and financial services to individuals and businesses in low and moderate-income communities across the United States. Many CDFIs also provide basic financial services to the unbanked, products to combat predatory lending and mortgage products for lower-income borrowers.

Potential Recipient: Community Mental Health Services Block Grant from the Department of Health and Human Services

Location: Nationwide

Purpose: to serve low-income Americans with mental health and addiction disorders

Request: \$520.7 million

Project Description: Funds Community Mental Health Centers and other community-based agencies that serve low-income Americans with mental health and addiction disorders

Potential Recipient: Competitive

Location: Various

Purpose: Printed Circuit Board Executive Agent for Defense Electronics Technology and Security

Request: \$5,000,000

Project Description: Printed circuit boards are the backbone of all electronics, which are a vital component of all national defense, economic, environmental, energy and health care management solutions. Intense global competition has resulted in a fifty percent reduction in the number of United States Printed Circuit Boards (PCB's) and associated high-quality U.S. jobs. This funding will help prevent the DoD from being forced to rely solely on overseas manufacturing for sensitive high technology military electronics, putting future U.S. national security at risk.

Potential Recipient: Concert Pharmaceuticals

Location: Lexington, MA

Purpose: Ocular Antibiotic Treatment

Request: \$2,800,000

Project Description: Funding would accelerate clinical development and product deployment to support military end-use.

Potential Recipient: Corporation for National and Community Service (CNCS)

Location: Nationwide

Purpose: to support CNCS programming

Request: \$1.42 billion

Project Description: This funding level would allow CNCS to mobilize more than six million Americans to solve critical problems through national service, foster higher levels of innovation and impact in the volunteer and nonprofit sector, strengthen agency management and performance measurement, and continue to carry out the new initiatives and programs authorized by the Edward M. Kennedy Serve America Act.

Potential Recipient: Crime Victims Fund at the Department of Justice

Location: Nationwide

Purpose: to increase the cap on the Crime Victims Fund authorized by the Victims of Crime Act

Request: cap at \$867 million

Project Description: The Crime Victims Fund supports both crime victim compensation, which pays many of the out-of-pocket expenses incurred by victims as a result of crime, and victim assistance programs, which provide victims with support and guidance in the aftermath of crime.

Potential Recipient: Crystal Systems, Inc.

Location: Salem, MA

Purpose: Domestic Infrastructure to Support Production of Large Format Sapphire Windows

Request: \$7,000,000

Project Description: The Joint Strike Fighter (JSF) is the Department of Defense's (DoD) answer for an affordable next generation strike aircraft weapons system for use by the Navy, Air Force, Marines, and our allies. Requested funding will increase capitalization of current fabrication facilities to ensure production capacity in support of the JSF schedule, and will expand crystal growth and coating technology for larger sapphire windows.

Potential Recipient: Cure Alzheimer's Fund

Location of project: Wellesley Hills, Massachusetts

Purpose: Cure Alzheimer's Fund Alzheimer's Genome Project

Request: \$750,000

Project Description: The requested funding would be used to purchase state of the art equipment to allow the Cure Alzheimer's Fund Alzheimer's Genome Project to more quickly and efficiently analyze the genes that impact Alzheimer's disease. Newer equipment will decrease repetition and "hunting in the dark" to allow researchers to focus on genes most likely to respond to therapeutic interventions.

Potential Recipient: Curesearch, Childhood Cancer Foundation

Location: Boston, MA

Purpose: Pediatric Cancer Research and Clinical Trials

Request: \$10,000,000

Project Description: The requested funds will be used to enhance important ongoing pediatric cancer clinical trials, support the creation of new clinical trials, and prevent the discontinuation of critical childhood cancer trials. This research will benefit children of military families, civilian Department of Defense employees, and other children afflicted with childhood cancer.

Potential Recipient: Curtiss-Wright Controls Electronic Systems

Location: Littleton, MA

Purpose: Integrated Vehicle Health Monitoring System

Request: \$2,600,000

Project Description: Condition Based Maintenance (CBM) systems allow rapid diagnosis of Vehicle Health Maintenance (VHM) through improved problem identification techniques. This funding will be used for continued research and engineering toward the development of open standards for affordable, cross platform CBM systems.

Potential Recipient: Dana-Farber Cancer Institute

Location: Boston, MA

Purpose: Cancer Vaccine Center of Excellence: Melanoma Research

Request: \$3,000,000

Project Description: The requested funds will be used to integrate basic and clinical investigative studies through several distinct research components. The primary focus of this research is to further develop cancer immunotherapies by focusing on melanoma as a disease model.

Potential Recipient: Dana-Farber Cancer Institute

Location of project: Boston, Massachusetts

Purpose: Center for Personalized Cancer Therapy

Request: \$1 million

Project Description: The requested funding would support a joint program of the University of Massachusetts Boston and Dana-Farber/Harvard Cancer Center. The Center's facilities will optimize treatment and health outcomes for individual cancer patients; strengthen the faculty of UMass Boston; focus upon cancer disparities among minority individuals; and expand the life sciences sector of the Massachusetts economy, by enlarging the pipeline of highly talented professionals and by pursuing collaborations with industry partners to design, develop, test, and market new therapies and medicines that save or improve the lives of citizens.

Potential Recipient: Deaf-blind programming at the Department of Education

Location of project: Nationwide

Purpose: to meet the needs of deaf-blind children and their teachers and families

Request: \$17.8 million

Project Description: The requested funding would support disability technical assistance, programming and services for deaf-blind children, their families and teachers.

Potential Recipient: Dean College

Location of project: Franklin, Massachusetts

Purpose: Career and Transfer Center

Request: \$1 million

Project Description: The requested funding would be used to create a Career and Transfer Center focusing on career development as a life-long learning process. It will empower students to create individual plans for successful transfer and employment, capitalizing on the skill sets learned while at Dean and enabling each student to translate these skills in order to enhance their learning into the work place.

Potential Recipient: Delco Corporation

Location: Natick Labs, MA

Purpose: Ballistic Helmet Protection Technology (BHPT)

Request: \$1,000,000

Project Description: Funding for this project will allow helmet manufacturers to reach the military defined requirements for the next generation ballistic helmet through technology improvements to the existing ballistic helmet manufacturing process.

Potential Recipient: Devereux Massachusetts

Location: Rutland, Massachusetts

Purpose: Neurodevelopment Center for At-Risk Youth

Request: \$700,000

Project Description: The requested funding would be used to establish the nation's first neurodevelopment center within a residential facility in order to train increased attention and impulse control in youth and adolescents with severe behavior disorders.

Potential Recipient: Diagnostics for All

Location of project: Cambridge, Massachusetts

Purpose: Low-Cost Paper Diagnostics Devices for Point-of-Care Monitoring of Diabetes

Request: \$3 million

Project Description: The requested funds would be used to develop low-cost diagnostic devices fabricated from paper. Specifically, these microfluidic devices will be used to monitor glucose levels for diabetes patients without the use of bulky, expensive monitors.

Potential Recipient: DocBox, Inc.

Location: Waltham, Massachusetts

Purpose: Clinical Technology Integration for Military Health

Request: \$6,600,000

Project Description: This funding will be utilized to develop and demonstrate the clinical benefits derived from integrating the clinical environment, thus creating point of care control systems which utilize standards-based communication to develop medical device plug and play, workflow assisting technologies, and portability of patient data.

Potential Recipient: Draper Laboratory

Location: Cambridge, MA

Purpose: Maritime Open Architecture Autonomy (MOAA)

Request: \$3,000,000

Project Description: The Navy is working to demonstrate the military utility of large unmanned undersea vehicles as well as to show that they can be acquired using open business models. This

project will place Maritime Open Architecture Autonomy (MOAA) on existing large diameter vehicles developed by other contractors to provide long duration autonomous capability and will validate the open business model approach.

Potential Recipient: Drinking Water State Revolving Fund at the Environmental Protection Agency

Project Location: Nationwide

Purpose: Provide clean, safe water for our communities

Request: \$1.387 billion

Project Description: This funding would capitalize state clean water and drinking water loan programs to fund water quality protection projects for wastewater treatment, nonpoint source pollution control, and watershed and estuary management, as well as funding public water system infrastructure improvement projects.

Potential Recipient: DRS Power Technology, Inc

Location: Fitchburg, MA

Purpose: DDG 51 Class Hybrid Electric Drive At-Sea Demonstrator

Request: \$10,000,000

Project Description: This funding will be utilized to develop and install a hybrid electric drive (HED) propulsion system on a DDG 51 class destroyer for at-sea demonstration, which will help to reduce fuel consumption and maintenance costs significantly while increasing mission effectiveness of the US Navy's DDG 51 Class of ships.

Potential Recipient: DRS Power Technology, Inc

Location: Fitchburg, MA

Purpose: Fan Coil Assembly of the Future

Request: \$2,700,000

Project Description: The continuing increase in electronics systems aboard U.S. Navy ships results in a proportional need for increased cooling. To adequately address this increase in thermal loading, the Navy must replace legacy Fan Coil Assembly's with more efficient and effective Fan Coil Assembly's. The requested funds will help to continue to design, build, and functionally test a phase I micro power electronics system and to execute qualification testing of a representative fan coil assembly and to scale the design to a family of shipboard units.

Potential Recipient: Duclos Corporation

Location: Somerset, MA

Purpose: Force Protection- Coastal (FP-C) Patrol Craft

Request: \$5,000,000

Project Description: The requested funds will provide a capability to persistently patrol shallow littoral areas beyond sheltered harbors and bays and into less sheltered open water out to the Departure Sea Area (DSA). This capability will offer increased force protection of friendly and coalition forces and critical infrastructure.

Potential Recipient: Eastern Nazarene College

Location of project: Quincy, Massachusetts

Purpose: The Center for Responsibility and Justice (CRJ)

Request: \$250,000

Project Description: The CRJ would use the requested federal assistance to meet operating costs for our launch year; these include support of VISTA volunteers, funding for on-campus speakers and planning for a conference, and the ability to build partnerships with organizations in our local communities.

Potential Recipient: ECHO Program at the Department of Education

Location: Nationwide with projects in New Bedford and Salem, Massachusetts

Purpose: to support Education through Cultural and Historical Organizations (ECHO)

Request: \$12 million

Project Description: This requested funding would go towards educational opportunities for children by partnering with cultural and historic organizations such as the New Bedford Whaling Museum and the Peabody Essex Museum.

Potential Recipient: Edward M. Kennedy Institute for the United States Senate

Location of project: Boston, Massachusetts

Purpose: Edward M. Kennedy Institute for the United States Senate Educational Program Development

Request: \$10 million

Project Description: The Edward M. Kennedy Institute for the United States Senate seeks to use this requested federal funding to support the development of civics education programs designed to benefit students of all ages, from the elementary and secondary levels through the graduate and post-graduate levels.

Potential Recipient: Emerson College

Location of project: Boston, Massachusetts

Purpose: Paramount Theatre Mediation Initiative

Request: \$500,000

Project Description: The requested funding would help Emerson install the equipment and technology to permit both standard and high-definition video production of performances in this Boston Landmark venue.

Potential Recipient: Emerson College

Location: Boston, Massachusetts

Purpose: to preserve a historic building

Request: \$500,000

Project Description: This requested funding would go towards the preservation of the façade of one of Boston's most significant and historic theater properties, facing the Boston Common in the Piano Row National Register Historic District.

Potential Recipient: Emitech Inc.

Location: Fall River, MA

Purpose: Sensitive and Selective Explosive Detector (SENSED)

Request: \$6,000,000

Project Description: The requested funds will complete development of existing prototypes for explosive detection. This will be done by increasing the system's standoff sensing abilities by

integrating it with a robotic vehicle, ruggedizing and reducing its weight, and developing controlling hardware and software for the new system.

Potential Recipient: Emmanuel College

Location of project: Boston, Massachusetts

Purpose: The Center for Science Education

Request: \$1.75 million

Project Description: The requested funding would be used to support the Center for Science Education. The center will utilize the extensive opportunities provided by the College's Academic Science Center, allowing the college to expand upon its success in implementing education outreach programs, preparing students for careers in science, and providing leadership in science education throughout the Commonwealth of Massachusetts and the nation.

Potential Recipient: Endicott College

Location: Beverly, Massachusetts

Purpose: Endicott College - North Shore InnoVentures STEM/Life Sciences Partnership

Request: \$1.5 million

Project Description: This funding would be used to develop an on-campus biotechnology business incubator and shared lab environment that will be utilized by start-up biotechnology companies/entrepreneurs as well as faculty, students and interns in Endicott's Biotechnology program.

Potential Recipient: Energy Efficiency and Conservation Block Grant (EEGBC) program at the Department of Energy

Project Location: Nationwide

Purpose: Conserve Energy and create jobs

Request: \$3.2 billion

Project Description: These funds would support cities and counties as they move forward to implement federally-approved energy efficiency and conservation strategies.

Potential Recipient: Essex County Sheriff's Department

Location: Essex County, Massachusetts

Purpose: Essex County Sheriff's Department Comprehensive Substance Abuse Education and Treatment Program

Request: \$280,000

Project Description: This funding is requested to combat the widespread substance abuse of opiates such as Oxycontin and Heroin, especially among teenagers, in Essex County, Massachusetts.

Potential Recipient: Essex County Sheriff's Department

Location: Essex County, Massachusetts

Purpose: Essex Regional Emergency Communications Center Records Management Software

Request: \$500,000

Project Description: The requested funding would be used to enhance interoperability between several police departments within Essex County, MA.

Potential Recipient: Essex National Heritage Area

Location: Essex County, Massachusetts

Purpose: to support the construction of a 28-mile rail-trail

Request: \$3,692,000

Project Description: The requested federal assistance shall be used to complete the work necessary to finalize design of the 28-mile rail-trail and ready the project for construction.

Potential Recipient: Executive Office of Labor and Workforce Development

Location of project: Statewide

Purpose: Health Care Industry Grant Corp

Request: \$500,000

Project Description: The requested funding would help close the health care skills gap by identifying health care labor shortages and recruiting workers by partnering with community colleges to help workers gain access to employment.

Potential Recipient: Fair Housing Initiatives Program at the Department of Housing and Urban Development

Location: Nationwide

Purpose: to fund fair housing initiatives and enforcement activities

Request: \$52 million

Project Description: Funding for a competitive grant program that provides necessary funding to fair housing organizations fighting pervasive discrimination in the housing rental, sales, lending and insurance markets. These groups address many challenges that exist in the current housing market.

Potential Recipient: Fate Therapeutics Inc.

Location: Cambridge, MA

Purpose: Advancing iPSC Technology for Regenerative Medicine Therapies to Treat Combat Injuries

Request: \$9,400,000

Project Description: While advances in medical care and improvements in both body and vehicle armor has resulted in increased soldier survival, a soldier's eyes, limbs, and head still remain extremely vulnerable. Research and its applications in regenerative medicine now offer an opportunity to advance personalized cell therapies (PCTs) for soldiers and veterans suffering from traumatic combat injuries, such as blindness, deafness, tissue loss, and neurodegeneration.

Potential Recipient: Cities of Fall River and New Bedford and the Town of Acushnet

Location: Cities of Fall River and New Bedford and the Town of Acushnet, Massachusetts

Purpose: Bristol County CSO Infrastructure

Request: \$4.9 million

Project Description: This funding would be used to make improvements to aging wastewater treatment facilities.

Potential Recipient: Federal Bureau of Investigation Art Crime Team

Location: Washington, D.C. and Boston, Massachusetts

Purpose: Help solve the Isabella Stewart Gardner Museum Art Heist

Request: \$500,000

Project Description: The requested funding would be used to hire additional agents, conduct forensic analysis and for any other operations to help solve the Gardner Museum heist, the world's largest art theft.

Potential Recipient: Fibrous Dysplasia Foundation

Location of project: Nationwide

Purpose: Fibrous Dysplasia Network

Request: \$750,000

Project Description: The requested funding would be used to increase and support research and improve the quality of treatment for individuals afflicted with McCune Albright Syndrome(MAS), Fibrous Dysplasia(FD) and Cherubism. This funding would also go to the creation of a network to connect patients and their families on local, regional and national bases with others who are trying to cope with the consequences of MAS/FD/Cherubism and establish a MAS/FD/Cherubism Registry and Biobank.

Potential Recipient: Finisar Corporation

Location: Wilmington, MA

Purpose: Compact Laser Terminal for Airborne Network Centric Warfare

Request: \$3,500,000

Project Description: The purpose of this project is to complete development of a high power, wavelength tunable high sensitivity data format laser transmitter/receiver in an extremely small Size Weight and Power format. Compact Laser Terminal (CLT) will enable fast adaptable wavelength channel allocation to reconfigure the network with a reduction in power consumption by a factor of substantial amount over large form-factor legacy transmitters for fiber optics telecommunications.

Potential Recipient: Fisher College

Location: Boston, Massachusetts

Purpose: College 101

Request: \$500,000

Project Description: The requested funding would be used to expand and improve "College 101" a partnership between Fisher College, Boston Public High schools and local businesses working to expose high school students to the undergraduate college experience.

Potential Recipient: FLIR Systems, Inc.

Location: Billerica, MA

Purpose: SOVAS HHI MR

Request: \$5,000,000

Project Description: This funding will help meet the need for a visual augmentation system for use by special operations forces to provide those forces with the ability to navigate vehicles and to conduct surveillance, detect, identify and track threats in all viewing and weather conditions.

Potential Recipient: FLIR Systems, Inc.

Location: Billerica, MA

Purpose: SOVAS HHI Long Range

Request: \$19,000,000

Project Description: This funding will help meet the need for a long range visual augmentation system for use by special operations forces to provide those forces with the ability to navigate vehicles and to conduct surveillance, detect, identify and track threats in all viewing and weather conditions.

Potential Recipient: Food Bank Infrastructure Grant program at the Department of Agriculture

Location: Nationwide

Purpose: to provide infrastructure funds to food banks

Request: \$15 million

Project Description: This funding would be used to offer competitive grants to food banks to help them maintain and improve their equipment, facilities, and capacity.

Potential Recipient: Food Safety and Inspection Service at the Department of Agriculture

Location: Nationwide

Purpose: Horse Protection Act (HPA) Enforcement

Request: \$900,000

Project Description: Congress enacted the HPA in 1970 to make illegal the abusive practice of “soring,” in which unscrupulous trainers use a variety of methods to inflict pain on sensitive areas of Tennessee Walking Horses’ hooves and legs to exaggerate their high-stepping gait and gain unfair competitive advantage at horse shows. This request will strengthen the enforcement of the Horse Protection Act.

Potential Recipient: Food Safety and Inspection Service at the Department of Agriculture

Location: Nationwide

Purpose: Humane Methods of Slaughter Act (HMSA) enforcement

Request: \$2 Million

Project Description: This funding will help to address shortfalls in USDA oversight of humane handling rules for animals at slaughter facilities. This oversight is critical not only for animal welfare but for food safety.

Potential Recipient: Forest Legacy Program at the Department of Agriculture

Project Location: Nationwide

Purpose: Conserve important working forestlands

Request: \$100 million

Project Description: This funding will assist states in conserving important working forestlands that are threatened by conversion to non-forest uses by leveraging state and private funds.

Potential Recipient: Forsyth Health Institution

Location of project: Statewide

Purpose: ForsythKids: An Enhanced School-Based Preventive Oral Health Program

Request: \$750,000

Project Description: The requested funding would be used to purchase laboratory and diagnostic equipment to better evaluate and analyze the public health impacts of the program. It would also be used to add a child obesity intervention into schools served by the ForsythKids program.

Potential Recipient: Fosta-Tek Optics

Location: Leominster, MA

Purpose: Lightweight Polymer Designs for Soldier Combat Optics

Request: \$3,000,000

Project Description: Requested funding will advance the development of a sturdy polymer based material that can be used for low-cost, lightweight eyewear and day optics that can withstand the rigors of this difficult climate. The primary focus of this program is to identify a soldier combat optics component either currently fabricated from glass or in need of improved ballistic performance that would be redesigned and manufactured in a cost-effective manner.

Potential Recipient: Foster-Miller, Inc.

Location: Waltham, MA

Purpose: Advanced Below-Knee Prostheses for Battlefield Amputees

Request: \$5,000,000

Project Description: The requested funding would continue the development of a biologically-based, microprocessor-controlled artificial leg that will restore motor and sensory capability to lower extremity amputee patients.

Potential Recipient: Framingham State College

Location of project: Framingham, Massachusetts

Purpose: Ken Olsen Science Center STEM Equipment

Request: \$750,000

Project Description: Funding is requested to support the replacement of 15-year-old equipment in both the "Mission Control" and the "Space Station" simulators that will have served nearly 200,000 K-12 students in hands-on, STEM-based, learning activities.

Potential Recipient: Franciscan Hospital for Children

Location of project: Boston, Massachusetts

Purpose: Inpatient Psychiatric Unit Renovations

Request: \$480,000

Project Description: The requested funding would be used for much needed renovations and modernizations at the Inpatient Psychiatric Unit at Franciscan Hospital for Children.

Potential Recipient: From the Top

Location of project: Boston, Massachusetts

Purpose: From the Top Massachusetts Education and Outreach program

Request: \$500,000

Project Description: From the Top would use the requested federal funds to conduct an outreach program consisting of activities designed to inspire and entertain local audiences, motivate and engage school children in Boston and across the state, and provide young artists in Massachusetts and the arts in Massachusetts in general, unique and positive exposure.

Potential Recipient: General Dynamics Advanced Information Systems (GDAIS)

Location: Pittsfield, MA

Purpose: Autonomous Acoustic Array Advanced Tubular Solid Oxide Fuel Cell (SOFC)

Request: \$3,800,000

Project Description: This funding will be utilized to transfer the tubular Solid Oxide Fuel Cell (SOFC) technology to naval autonomous unmanned vehicles and sensors. By 2020, the Navy expects 50 percent of the energy for the Department's ships, aircraft, tanks, vehicles, and shore installations to come from alternative sources. Using the advanced tubular SOFC technology in unmanned vehicles and networked sensors will help the Navy in achieving this goal.

Potential Recipient: General Dynamics C4 Systems

Location: Taunton, MA

Purpose: Dismounted Soldier Network Extension

Request: \$7,000,000

Project Description: Operations in southwest Asia, particularly in the rugged terrain of Afghanistan, have highlighted a communications and network need at company and small unit command posts. This funding would support the Dismounted Soldier Network Extension which draws primarily from networked communications and computing capability available from the WIN-T programs, but is packaged in transit cases and substitutes a simpler “at-the-halt” satellite communications terminal responsive to small unit, infantry operations.

Potential Recipient: General Electric

Location: Lynn, MA

Purpose: Alternate Engine Development

Request: \$242,500,000

Project Description: This funding will support the continued development of the F136 Alternative Engine. Continued testing and design of an alternate engine for the Joint Strike Fighter would mitigate program disruptions, reduce costs, and spur technological advancements.

Potential Recipient: Geothermal Technologies Program (GTP) at the Department of Energy

Project Location: Nationwide

Purpose: Expand the use of geothermal resources

Request: \$105 million

Project Description: This funding will be used to expand the use of geothermal resources and develop advanced technologies to effectively tap this resource throughout the nation.

Potential Recipient: City of Gloucester Department of Public Works

Location: Gloucester, Massachusetts

Purpose: To update the City's wastewater systems

Request: \$11 million

Project Description: This funding would fund needed upgrades to the City's wastewater treatment plant.

Potential Recipient: Goodrich ISR Systems

Location: Chelmsford, MA

Purpose: DB-110 on MQ-9

Request: \$6,000,000

Project Description: This program will provide a DB-110 airborne sensory system and its corresponding ground equipment for the US Navy. The DB-110 sensor will be integrated onto an MQ-9 Reaper to augment the platform's existing sensors with a long range wide area search/cueing capability.

Potential Recipient: Gordon College

Location: Wenham, Massachusetts

Purpose: Gordon in Lynn

Request: \$250,000

Project Description: The requested funding would be used to expand the number of community partners and engage an additional 50-100 Gordon students in service-learning projects targeted to at-risk children.

Potential Recipient: Gordon College

Location of project: Wenham, Massachusetts

Purpose: Ken Olsen Science Center STEM Equipment

Request: \$500,000

Project Description: The requested funding would be used to acquire STEM equipment for the newly constructed Ken Olsen Science Center, with a focus on laboratory equipment for the chemistry, biology and physics departments. With this funding, Gordon will attract more students into careers in science; helping to produce an adequate pipeline to meet national needs for domestic scientists and mathematicians.

Potential Recipient: Grassroots Source Water Protection Program at the Department of Agriculture

Location: Nationwide

Purpose: Support rural drinking water and wastewater systems

Request: \$6.4 million

Project Description: This funding will support local initiatives to develop source water/watershed protection plans. This funding will help provide each state rural water association with one full-time source water technician.

Potential Recipient: Green Jobs Act programs at the Department of Labor

Location: Nationwide

Purpose: Create Green Jobs

Request: \$500 million

Project Description: This funding would be used to fill a critical need as we transition to clean energy by ensuring that we have skilled workers prepared to support the production, installation, and maintenance of clean energy technologies.

Potential Recipient: Hallmark Health System/Melrose Wakefield Hospital

Location of project: Melrose, Massachusetts

Purpose: Renovation of Medical/Surgical/Cardiac Care Nursing Unit

Request: \$500,000

Project Description: The requested funds would be used to renovate the existing unit to improve patient safety, reduce risk of infection, and provide greater energy efficiency and nursing care for patients. The 28-bed unit cares for medical, surgical and cardiac patients.

Potential Recipient: Harvest Technologies Corp

Location: Plymouth, MA

Purpose: Rapid Cell Therapy to Treat Battlefield Traumatic Brain Injuries

Request: \$3,000,000

Project Description: This project would facilitate research and development of a therapy for Traumatic Brain Injury (TBI).

Potential Recipient: Head Start, Early Head Start, and Child Care and Development Block Grant (CCDGB) programs

Location: Nationwide

Purpose: To prepare children for success in school and later life, and to improve access to high-quality, affordable child care

Request: Increase of \$1 billion for Head Start and Early Head Start, Increase of \$1 billion for CCDGB programs

Project Description: These programs provide health, nutrition, and early education services as well as access to high-quality and affordable child care for low-income families.

Potential Recipient: Health Centers program at the Department of Health and Human Services

Location: Nationwide

Purpose: Improve care at community health-run delivery systems

Request: \$2.56 billion

Project Description: The Health Centers program is a community-run health care delivery system that is open to all regardless of their ability to pay. This funding will support and expand existing community health centers and develop new centers in underserved areas.

Potential Recipient: Healthy Community Program at the Department of Health and Human Services

Location: Nationwide

Purpose: Support healthy eating, active living, obesity prevention and management of chronic disease

Request: \$30 million

Project Description: The requested funding would go to community-based programs that work at the local level to improve health and wellness of the community.

Potential Recipient: Healthy Start Program at the Department of Health and Human Services

Location: Nationwide

Purpose: Reduce infant mortality, low birth-weight, and racial disparities in perinatal outcomes

Request: \$120 million

Project Description: The requested funding would support the Healthy Start program which funds a network of over 100 community-based programs designed to reduce infant mortality and support disadvantaged pregnant women.

Potential Recipient: Hittite Microwave Corporation

Location: Chelmsford, MA

Purpose: Ultra-Low Phase Noise Microwave Oscillator Technology

Request: \$4,000,000

Project Description: Funding this request will develop and apply next-generation microwave oscillator product technologies with significant performance improvements. The end-result will

be a product integrated within US DoD radar systems that meets or exceeds current performance capabilities and will have a smaller packaging volume.

Potential Recipient: HIV Research Network (HIVRN)

Location: 18 primary care sites across the country in 11 states including Massachusetts

Purpose: HIV Research Program

Request: \$2.25 million

Project Description: Continued funding would improve delivery and outcomes of HIV care in the U.S. and identify and address disparities in HIV care that exist by race, gender, and HIV risk factor.

Potential Recipient: Holy Family Hospital

Location: Methuen, Massachusetts

Purpose: Comprehensive Energy Conservation, Energy Efficiency and Renewable Energy/Green Project

Request: \$5 million

Project Description: This funding would be used to replace many components of the aging infrastructure and supplement with new modern and more energy efficient technology

Potential Recipient: Holyoke Medical Center

Location of project: Holyoke, Massachusetts

Purpose: Holyoke Medical Center Equipment: SPECT/CT Gamma Camera

Request: \$750,000

Project Description: The requested funding would be used to acquire a SPECT/CT Gamma Camera which will enable the hospital to scan patients for functional and anatomic information during a single exam. The goal is the replacement of a thirteen-year old Gamma Camera which is in constant need of repair with replacement parts getting increasingly difficult to locate.

Potential Recipient: Horizons for Homeless

Location of project: Boston, Massachusetts

Purpose: Horizons for Homeless Children's Community Children's Centers

Request: \$1.5 million

Project Description: The requested funds would be used to develop the capacity of three early education and care centers for homeless children. The community centers currently serve 175 homeless children, from two months to five years of age, giving them access to high quality early care and education every day of the week.

Potential Recipient: Housing Opportunities for Persons with AIDS (HOWPA)

Location: Nationwide

Purpose: To provide housing for people with AIDS

Request: \$410 million

Project Description: HOPWA is the only federal housing program that helps cities and states address the housing crisis facing people living with HIV/AIDS in the United States today. Roughly half of these individuals will require some form of housing assistance during their illness. New treatments, while life-saving, are expensive and often force individuals to choose between essential medications and housing.

Potential Recipient: Hydropower Technologies Program Project at the Department of Energy

Location: Nationwide

Purpose: Support the development of hydropower resources

Request: \$100 million

Project Description: This funding will be used to support hydropower resource assessments and environmental impact studies, research development, and demonstration (RD&D) of new waterpower technologies.

Potential Recipient: Innovative Applied Sciences

Location: Acton, MA

Purpose: ICS for Lightweight Combat Vehicles

Request: \$2,950,000

Project Description: This project will produce an Integrated Communication System (ICS) specifically designed to support lightweight vehicles in the US Army's Infantry Brigade Combat Teams (IBCT) units under the Army Brigade Combat Team Modernization umbrella.

Potential Recipient: Institute for Aging Research

Location: Roslindale, MA

Purpose: Sub-sensory Stimulation for Overall Balance Improvement in Injured Combatants

Request: \$2,000,000

Project Description: This funding will be utilized to further develop novel, noise-based devices that have potential to accelerate recovery of injured soldiers returning from war with balance and gait problems and recover lost function.

Potential Recipient: Integrated Ocean Observing System at the Department of Commerce

Location: Nationwide

Purpose: Ocean observing system

Request: \$53 million

Project Description: This funding will help provide public officials, businesses, resource managers, and others with data and information to improve the safety and efficiency of marine operations; strengthen predictions of coastal hazards; protect and restore healthy ecosystems; and promote economic development.

Potential Recipient: International Compliance Systems Inc.

Location: New Bedford, MA

Purpose: Joint Safety Climate System (JSCAS)

Request: \$4,000,000

Project Description: This funding would support the Joint Safety Climate Assessment System (JSCAS) is a web-based information management system that enables military officers at all levels in a chain-of-command to prevent avoidable accidents among personnel.

Potential Recipient: iRobot Corporation

Location: Bedford, MA

Purpose: Advanced Capabilities for the Battle-Proven PackBot

Request: \$1,800,000

Project Description: PackBots have been used on thousands of Counter-IED and route clearance missions in both Afghanistan and Iraq. These tactical robots allows troops to stay at safe stand-off distances while the robot relays real-time video, audio, and sensor readings, and physically disarms IEDs. This funding would be used to further integrate 360 degree field of view cameras and autonomous mapping technology into the PackBot.

Potential Recipient: Jewish Family & Children's Service (JF&CS)

Location of project: Brookline, Malden, and Framingham, Massachusetts

Purpose: Aging Well at Home: The NORCs/Aging in Community Demonstration Project

Request: \$300,000

Project Description: This project would deliver specific supportive services to 700 extremely low-income elders in Malden, Brookline and Framingham, MA to enable them to age in place with dignity focusing on physical activity, social connection and improved awareness of healthy, low-cost nutrition. New innovations target increasing participation of residents in Aging Well at Home activities through Steps for Life, an initiative that develops resident driven activities and motivational strategies – within and across sites- that increase physical activity, volunteerism and social connection.

Potential Recipient: Jewish Family Service of the North Shore

Location of project: Eastern Essex County, Massachusetts

Purpose: The Front Porch (NORC) and Beyond the Front Porch

Request: \$250,000

Project Description: The project would focus on the development and initiation of an innovative model of supportive services to assist older adults to *age-in-place* through: targeted and coordinated services; enhanced independence; improved socialization; empowerment; community building; increased quality of life; and the creation of efficiencies and increased capacity in service delivery.

Potential Recipient: Jewish Vocation Service

Location of project: Boston, Massachusetts

Purpose: Career Pathways for Frontline Healthcare Workers

Request: \$750,000

Project Description: The requested funding would be used to support Career Pathways for Frontline Healthcare Workers, an innovative partnership between the East Boston Neighborhood Health Center (EBNHC), Jewish Vocational Service (JVS), and Bunker Hill Community College (BHCC) to help EBNHC's entry-level workers to move up the career ladder to jobs within the organization that require more education. JVS seeks to expand this project at EBNHC and replicate it within three additional Boston-area neighborhood health centers.

Potential Recipient: JFYNetWorks

Location of project: Statewide

Purpose: JFYNet Academic Support and Career Awareness

Request: \$1 million

Project Description: The requested funds would support programs in math and science education for grades 6-12. The purpose of JFYNet is to build student skills and enhance student performance on standardized tests and in the classroom using high quality educational software

and web-based materials, professional development to classroom teachers, and technical assistance.

Potential Recipient: John R. Justice prosecutor and public defender student loan repayment Program at the Department of Justice

Location: Nationwide

Purpose: Help pay off student loans for lawyers that go into public service

Request: \$10 million

Project Description: Authorized by the John R. Justice Act this program addresses the serious problems prosecutor and public defender offices face in recruiting and retaining qualified attorneys. Under the program, attorneys can receive student loan debt repayment of up to \$10,000 per year if they commit to work for at least three years as state or local criminal prosecutors or public defenders.

Potential Recipient: Jobs for Bay State Graduates, Inc.

Location: Statewide

Purpose: School-to-Career Transition/Dropout prevention

Request: \$500,000

Project Description: The requested funding would help continue and expand a project serving at-risk high school students with proven teaching methods, curriculum and technology in an effort to “close the gap” in Massachusetts.

Potential Recipient: John H. Chafee Blackstone River Valley National Heritage Corridor

Location: Blackstone River Valley (including Worcester, Millbury, Upton, Hopedale, Northbridge, Sutton, Douglas, Uxbridge, Mendon, Millville and Blackstone)

Purpose: Implementing the Corridor Management Plan

Request: \$750,000

Project Description: This funding would pay for completing and sustaining the network of visitor centers, producing updated visitor information materials and services, continuing cleanup of river through storm water management, expanding farmers markets at historic sites, and planning assistance to Corridor communities.

Potential Recipient: Kidney Cancer Research Program at the Department of Defense

Location: Nationwide

Purpose: Increase funding for research grants focused on kidney cancer

Request: \$15 million

Project Description: The kidney cancer research program is a DoD Congressionally Directed Medical Research Program aimed at improving detection and treatment options for kidney cancer.

Potential Recipient: kSARIA

Location: Lawrence, MA

Purpose: Automated Fiber Optic Manufacturing Initiative

Request: \$4,000,000

Project Description: The United States Navy is deploying fiber optics as the primary communication system components for tactical shipboard applications. The current method to manufacture fiber optic cable assemblies is a complex 35 step process which is performed

entirely manually. This funding would support the Automated Fiber Optic Manufacturing Initiative which will address the issue of field installation, field repair, and maintenance by extracting the qualified technologies of the automated manufacturing line and inserting these technologies and processes in small, portable maintenance equipment that can be used by ship construction and ship force personnel in the harsh shipboard environment.

Potential Recipient: Kollmorgen Electro-Optical

Location: Northampton, MA

Purpose: Enhanced 360° Situational Awareness for Stryker Combat Vehicles

Request: \$3,000,000

Project Description: Requested funds would be used to reduce the size and weight of the 360° Situational Awareness System. The 360° Situational Awareness System would be integrated into the U.S. Army's Stryker Modernization efforts.

Potential Recipient: L3 Communications Aerospace Electronics Division

Location: Burlington, MA

Purpose: Multi Mission Mast System for Undersea Vehicles

Request: \$2,400,000

Project Description: In modern naval operations there is a growing use of manned and unmanned undersea vehicles. Navy undersea vehicles execute a variety of missions, particularly in the arenas of Intelligence, Surveillance, and Reconnaissance (ISR) and Special Operations. However, currently the Navy's undersea vehicles have no single mast which can accommodate the multiple sensors needed to perform the varied missions. This project will develop a modular Multi Mission Mast system design and will include an evaluation of best-of-class sensors and will formulate a modular power and communications interface along with a modular mechanical interface capable of satisfying all applicable platform requirements.

Potential Recipient: L-3 Integrated Optical Systems

Location: Wilmington MA

Purpose: Fast Steering Mirror Adjunct for Naval High Energy Laser Weapons

Request: \$3,860,000

Project Description: All three military services have validated military requirements for a high energy laser. A High Energy Laser requires sophisticated laser beam adjustments to maintain the beam on target due to the normal movement of a ship in water and continuing movement of the target. Improvements in beam control can be accomplished using Fast Steering Mirror (FSM) technology. Requested funds will result in new manufacturing processes for assembly, alignment, and integration of the FSM components into a single system.

Potential Recipient: L-3 Maritime Systems

Location: Newburyport, MA

Purpose: Integrated Advanced Ship Control (IASC)

Request: \$3,000,000

Project Description: Requested funds for this project would continue improvements currently being made in ship-wide controls by standardizing control systems across several classes of Navy ships while significantly reducing life-cycle costs associated with training personnel on outmoded and obsolete naval equipment. The completion of the IASC program would also align

with the Chief of Naval Operations (CNO) and Secretary of the Navy (SECNAV) strategic objectives by demonstrating commonality and cost reduction across several U.S. Navy ship classes.

Potential Recipient: Lahey Clinic

Location of project: Burlington, Massachusetts

Purpose: Emergency Department and Level II Trauma Center Renovation and Expansion

Request: \$3.3 million

Project Description: Because of current capacity and equipment limitations the Lahey Clinic is seeking federal funds to renovate and expand its Emergency Department. This would allow them to install an independent air handling and control system, increase Emergency Department capacity, create a separate, dedicated decontamination area for the care of patients requiring this measure and establish a permanent Security office/presence in the ED and install additional access and alarm systems to protect the staff and patients.

Potential Recipient: Land and Water Conservation Fund at the National Parks Service

Project Location: Nationwide

Purpose: Permanent protection and maintenance of critical lands

Request: \$384 million

Project Description: This funding will help to ensure the permanent protection and maintenance of critical lands in our national forests, recreation areas, parks, wildlife refuges, and historic sites.

Potential Recipient: Land and Water Conservation Fund stateside program at the National Parks Service

Project Location: Nationwide

Purpose: Permanent protection and maintenance of critical lands

Request: \$50 million

Project Description: This funding will help to support the protection of recreation lands and the development of parks at the state and local level.

Potential Recipient: Lasell College

Location of project: Newton, Massachusetts

Purpose: Math-Science Teaching & Connected Learning Initiative

Request: \$675,000

Project Description: The requested funding would be used to provide high quality education in science and mathematics through acquisition of scientific instrumentation, instructional technologies, information resources and related teaching and learning tools. The College will renovate existing science laboratories into state-of-the-art learning spaces suitable for coursework in math, math education, chemistry, biology, physics, environmental science and energy efficiency.

Potential Recipient: Town of Leicester/Becker College

Location: Leicester, Massachusetts

Purpose: Samuel May House Restoration

Request: \$550,000

Project Description: The requested will be used to complete the conversion of the historic May

House into a multi-functional facility that will house the official town center of Leicester, a museum on the Underground Railroad, and the Louisa May Alcott Writing Center.

Potential Recipient: Lesley University

Location of project: Cambridge, Massachusetts

Purpose: National Center for Teachers and School Leaders at Lesley University

Request: \$1.3 million

Project Description: The requested funds would go toward the National Center which fosters district level involvement and encourages meaningful teacher interactions across the nation while serving as a research and development testing ground that leverages emerging technology in order to bridge the achievement gap. In addition, the Center will organize program and course offerings in order to meet district needs, develop a nation-wide district outreach program, and deliver assessment models that address both student and teacher effectiveness.

Potential Recipient: Lilliputian Systems

Location: Wilmington, MA

Purpose: Micro Silicon Power Fuel Cell

Request: \$4,500,000

Project Description: The military is looking for battery run times to meet the demands of 72 hour missions. The Micro Silicon Power Fuel Cell weighs 10 times less than batteries carried by today's soldiers and runs on existing fuels already used by the U.S. military. Funds requested for this program would complete the development of a miniature fuel cell for the portable power market.

Potential Recipient: Lockheed Martin Sippican

Location: Marion, MA

Purpose: Submarine External Communications (ECS) Upgrade

Request: \$5,000,000

Project Description: The Advanced Towed Buoy (ATB) system will enable high data rate communications and above water situational awareness for the SSBNX submarine fleet during strategic and tactical missions. Funds will be used to develop critical technology required to sufficiently define the ATB to support the overall Submarine Communications Buoy system.

Potential Recipient: Lockheed Martin Sippican

Location: Marion, MA

Purpose: MK 53 (Nulka) Decoy System

Request: \$7,000,000

Project Description: This request for funds will support tasks that include engineering modeling, development of advanced radio frequency digital circuits, and enabling wider frequency coverage and integration of the MK 53 Nulka Decoy system into a variety of U.S. Navy combat systems.

Potential Recipient: Lockheed Martin Sippican

Location: Marion, MA

Purpose: MK 53 (Nulka) Decoy System

Request: \$3,000,000

Project Description: The Nulka decoy system protects U.S. Navy ships by countering a wide variety of enemy cruise missile threats. The procurement of additional Nulka funding will reduce the U.S. Navy's inventory shortfall and relieve some pressure in this regard.

Potential Recipient: Lowell Community Health Center

Location of project: Lowell, Massachusetts

Purpose: Health Center Expansion Project

Request: \$2 million

Project Description: The requested funding would be used to adapt a historic mill building as a new and expanded facility to provide high-quality, culturally competent health care for a total of 42,000 low-income, underserved individuals each year (40% of all Lowell residents).

Potential Recipient: Lowell General Hospital

Location of project: Lowell, Massachusetts

Purpose: Major Facility Expansion

Request: \$2 million

Project Description: The requested funding would be used to acquire capital equipment and fund the construction of a new building for Lowell General Hospital. This would support an ongoing \$95 million construction project to replace a large portion of the Hospital's aged facility and ensure that it can meet the needs of the Greater Lowell region well into the future.

Potential Recipient: Lowell Police Department

Location: Lowell, Massachusetts

Purpose: The Lowell Police Department's Fleet Enhancement Project

Request: \$410,000

Project Description: The requested funding would be used to purchase 10 cruisers and 110 GPS Units to increase officer safety and efficiency, which will benefit all residents.

Potential Recipient: Lowell Police Department

Location: Lowell, Massachusetts

Purpose: The Lowell Police Department's Massachusetts Police Leadership Institute Program

Request: \$250,000

Project Description: The requested funding would be used to support the Massachusetts Police Leadership Institute Program (MPLIP). This program is a two-week training that provides mid-level police executives with the values, knowledge and skills that are required to administer police units, programs and operations.

Potential Recipient: Lower Pioneer Valley Educational Collaborative

Location: Hampden County, Massachusetts

Purpose: High School Drop-out Prevention

Request: \$600,000

Project Description: The requested funding would be used to expand their programs designed to meet the needs of students at risk for high school dropout and in need of social and emotional supports.

Potential Recipient: Lower Pioneer Valley Educational Collaborative

Location of project: Hampden County, Massachusetts

Purpose: Western Massachusetts Workforce Development Project

Request: \$460,000

Project Description: The requested funds would support workforce development programs in Precision Machine and Manufacturing and Licensed Practical Nursing. The purpose of this project is to develop education and training programs in high growth sectors of the economy.

Potential Recipient: City of Lynn

Location: Lynn, Massachusetts

Purpose: Initial Appraisal of Lynn Harbor/Waterfront Dredging

Request: \$250,000

Project Description: This funding would pay for an Army Corps of Engineers initial appraisal of dredging 3600 feet of the Lynn waterfront connecting the Lynn Harbor channel with the Saugus River Channel, to be followed by a comprehensive feasibility study.

Potential Recipient: MAB Community Services

Location: Brookline, Massachusetts

Purpose: Green-Building at The Ivy Street School for Brain-Injured Teens

Request: \$550,000

Project Description: The requested funding would be used to improve the energy-efficiency of their main building and also help to build a new energy-efficient transitional housing apartment on its campus to help prepare 4 students for independent living.

Potential Recipient: Magnolia Solar, Inc.

Location: Woburn, MA

Purpose: Ultra High Efficiency Solar Cells for Defense and Terrestrial Applications

Request: \$2,500,000

Project Description: This funding will be utilized to demonstrate the feasibility of a scalable manufacturing process of high efficiency, nano-structure based thin film silicon germanium (SiGe) solar cells on low cost materials. This solar cell technology, in which germanium is incorporated into silicon thin film, will enhance the solar cell performance at lower cost for terrestrial applications than crystalline silicon materials found in today's solar panels.

Potential Recipient: Manet Community Health Center, Inc.

Location of project: Quincy, Massachusetts

Purpose: Electronic Health Record and Practice Management System Integration

Request: \$400,000

Project Description: The requested federal assistance would be used to upgrade Manet's existing Electronic Health Record (EHR), integrate its Electronic Practice Management (EPM) system and add capacity to achieve fail-over redundancy for emergency preparedness and IT disaster recovery. The completion of this project will enable internal and regional HIT system interoperability and will improve organizational capacity, integrity, efficiency and cost savings.

Potential Recipient: Manufacturing Advancement Center

Location of project: Worcester, Massachusetts

Purpose: Massachusetts Advanced Manufacturing Technology Center

Request: \$1 million

Project Description: The requested funding would support the creation of an Advanced Manufacturing Technology Center for dislocated, unemployed, low-wage workers, veterans and older youth in Massachusetts. The center will empower individuals with critical technical skills, in demand by the high growth advanced manufacturers.

Potential Recipient: Manufacturing Extension Partnership (MEP)

Location: Nationwide

Purpose: Provide technical support and services to small and medium-sized manufacturers

Request: \$129.7 million

Project Description: The funding would enable manufacturers to compete globally, support greater supply chain integration, and provide access to information, training, and technologies that improve efficiency, productivity, and profitability

Potential Recipient: Marine Biological Laboratory

Location: Woods Hole, Massachusetts

Purpose: Center for Regenerative Biology and Medicine

Request: \$2 million

Project Description: This funding would be used to equip a national Center for Regenerative Biology and Medicine in Woods Hole, Massachusetts.

Potential Recipient: Marine Biological Lab

Location: Woods Hole, Massachusetts

Purpose: Massachusetts Shellfish Recovery Initiative

Request: \$1.5 million

Project Description: This program is aimed at developing selectively bred oysters and clams with improved growth and disease resistance, and novel technology for growing mussels to meet the growing demand for cultured shellfish while preserving Massachusetts' coastal waters.

Potential Recipient: City of Marlborough

Location: City of Marlborough

Purpose: Wastewater treatment upgrades

Request: \$500,000

Project Description: This funding would be used to make improvements to aging wastewater treatment facilities.

Potential Recipient: Massachusetts 2020

Location of project: Statewide

Purpose: Massachusetts Expanded Learning Time to Support Student Success Initiative (ELT)

Request: \$1 million

Project Description: The requested funding would support the Expanded Learning Time to Support Student Success Initiative (ELT), a first-in-the-nation effort aimed at redesigning the conventional public school day to add 300 more hours for core academics, broadened enrichment activities, and teacher collaboration and professional development. Specifically the funds would be used to provide on-site coaching and technical assistance to the 22 schools in 11 districts

across the state to implement the expanded school day, including the use of data to drive improvements in instruction and building a culture of high expectations for all students.

Potential Recipient: Massachusetts Air National Guard

Location: Westfield, Massachusetts

Purpose: Additions and Renovations to F-15 Maintenance Hangar

Request: \$6 million

Project Description: This project will make required additions and alterations to the existing maintenance hangar (Building 15) at Barnes Municipal Airport.

Potential Recipient: Massachusetts Air National Guard

Location: Buzzards Bay, Massachusetts

Purpose: Enclave at Otis Air National Guard Base

Request: \$2.55 million

Project Description: This project will allow for the relocation of the Otis Air National Guard Base entrance gate, perimeter fence, perimeter road and supporting infrastructure.

Potential Recipient: Massachusetts Bay Community College

Location: Ashland, Massachusetts

Purpose: Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R) Training Program

Request: \$300,000

Project Description: The requested funds would go to create an HVAC/R program to train technicians for employment in the emerging green and clean energy fields.

Potential Recipient: Massachusetts Bay Community College

Location of project: Framingham, Massachusetts

Purpose: Nursing Simulation Laboratory

Request: \$400,000

Project Description: The requested funding would be used to renovate the Nursing and Allied Health simulation laboratory. The overall goal of this project is to significantly modernize the simulation laboratory for nursing and allied health programs enhancing the number of students who can participate, allow for better faculty feedback, and provide a more conducive educational setting.

Potential Recipient: Massachusetts Bay Community College

Location of project: Wellesley Hills and Framingham, Massachusetts

Purpose: Adaptive Technology for Student Learning

Request: \$350,000

Project Description: Federal funding would be used to purchase laptop computers and software to assist and further educate more than 800 students with disabilities. Funds will also provide for two full-time staff trainers to train faculty and staff, as well as work with students to familiarize themselves with the technology.

Potential Recipient: Massachusetts College for Liberal Arts (MCLA)

Location of project: North Adams and Berkshire County, Massachusetts

Purpose: The Berkshire Compact for Education

Request: \$1.5 million

Project Description: The requested federal funding would support college access and immersion programs through the Berkshire Compact for Education. The Compact's college access and preparation programs offer a clear path leading to a postsecondary education, and inspire students follow that path. The Compact is a county-wide initiative focused on the crucial educational challenges of student aspirations, educational access, and degree attainment.

Potential Recipient: Massachusetts College of Pharmacy and Health Sciences—Boston

Location of project: Boston, Massachusetts

Purpose: Instructional Technology and Drug Information Center

Request: \$750,000

Project Description: The requested funding would be used to expand the Center for Drug Information and Natural Products and to support instructional technology. Computer and instructional technology equipment will support expansion of the College's academic programs designed to address the national shortage of health care professionals.

Potential Recipient: Massachusetts College of Pharmacy and Health Sciences—Worcester

Location of project: Worcester, Massachusetts

Purpose: Health Education and Resource Center

Request: \$750,000

Project Description: Funds are requested to expand the medication information and distance learning activities of the Health Education and Resource Center at the Worcester Campus of Massachusetts College of Pharmacy and Health Sciences. This would allow for advanced clinical rotations for pharmacy, nursing and physician assistant students at selected neighborhood health centers across the state, additional outreach activities, including an assessment of oral health in Central Massachusetts, and technology and distance learning equipment for the pharmacy, nursing, physician assistant and dental hygiene programs.

Potential Recipient: Massachusetts Department of Public Health

Location: Boston, Massachusetts

Project: MDPH/BEH Food Protection Program

Request: \$250,000

Project Description: The requested funding would be used for the Massachusetts Department of Public Health (MDPH)/Bureau of Environmental Health (BEH) Food Protection Program, a pilot project to investigate the feasibility of new protocols in food safety.

Potential Recipient: Massachusetts League of Community Health Centers and the East Boston Neighborhood Health Center

Location of project: Statewide

Purpose: Community Health Workforce Training and Development

Request: \$600,000

Project Description: The Massachusetts League of Community Health Centers in partnership with the East Boston Neighborhood Health Center would use the requested funding to expand their respective healthcare workforce development initiatives focusing on clinical career tracks to nursing, medical assistant and other allied health roles as well as developing a pipeline of

potential new leaders for the community health field. They will continue to work collaboratively to increase the number of highly-trained state residents who work in the health care field, providing clinical services as members of primary care teams, particularly in the community health setting.

Potential Recipient: Massachusetts Marine Fisheries Institute (MFI)

Location: New Bedford, Massachusetts

Project: Scallop Fishery Assessment

Request: \$1 million

Project Description: The requested funding would support ongoing research into the scallop fishery and its sustainability.

Potential Recipient: Massachusetts Maritime Academy

Location: Buzzards Bay, Massachusetts

Purpose: Nuclear Power Operator Simulator

Request: \$1.7 million

Project Description: The requested funds would be for the installation of a nuclear power operator simulator to assist in the training of its nuclear engineering students.

Potential Recipient: Massachusetts Maritime Academy (MMA)

Location of project: Buzzards Bay, Massachusetts

Purpose: Renewable Energy Workforce Training Initiative

Request: \$3 million

Project Description: The requested funding would support MMA's existing degree program for Facilities Engineers and Managers with outreach programs coordinated through the Marine Renewable Energy Center (MREC) located within the Advanced Technology and Manufacturing Center of the University of Massachusetts – Dartmouth. MREC will develop coursework for technician instruction in regional community colleges and technical high schools, and utilize established degree programs and hands-on training facilities and methods at MMA.

Potential Recipient: Massachusetts National Guard

Location: Boston, Massachusetts

Purpose: Armed Forces Reserve Center (JFHQ) Ph2 at Hanscom AFB

Request: \$23 million

Project Description: This project is required to house all elements of the Joint Force Headquarters, Massachusetts Army National Guard, Headquarters Massachusetts Air National Guard, United States Property and Fiscal Office, and Recruiting and Retention Command having a total strength of 450 personnel.

Potential Recipient: Massachusetts National Guard

Location: Buzzards Bay, MA

Purpose: Range Control/Training and Audiovisual Support Center

Request: \$1.5 million

Project Description: This project will construct a Range Control / TASC building for Camp Edwards, MA. This facility is necessary to support the current and projected training throughput at the Camp Edwards training site.

Potential Recipient: Massachusetts National Guard

Location: Buzzards Bay, MA

Purpose: Renovation of Building 102 at Camp Edwards

Request: \$4 million

Project Description: This project will renovate Building 102. Building 102 was constructed in the 1930s and served as the installation Headquarters Building and then as the headquarters for the 26th Yankee Division. This project will revitalize this historic icon making this facility a relevant edifice of Camp Edwards once again as the installation Headquarters Building.

Potential Recipient: Massachusetts Office for Victim Assistance (MOVA)

Location: Statewide

Purpose: Sexual Assault Nurse Examiner (SANE) Program

Request: \$1.5 million

Project Description: The requested funding would ensure the retention of the SANE program which provides a highly detailed, effective protocol as well as medical services for sexual assault victims who seek medical attention at hospital emergency departments and rape crisis center medical advocacy services.

Potential Recipient: Massachusetts Port Authority

Location: Boston, Massachusetts

Purpose: Boston Harbor Deep Draft Navigation Improvement Project

Request: \$2.1 million

Project Description: Complete feasibility study and proceed with planning, engineering and design (PED) phase of the Boston Harbor Deep Draft Navigation Improvement Project, which will deepen the channels serving the Conley Container Terminal to between 45 and 50 feet.

Potential Recipient: Massachusetts Port Authority

Location: Boston, Massachusetts

Purpose: Boston Inner Harbor Maintenance Dredging Project

Request: \$2.7 million (supporting the President's budget request)

Project Description: The funds will be used to conduct dredging to widen the Federal channel in the vicinity of the new Chelsea Street Bridge in the Chelsea River. This dredging will allow the removal of channel restrictions which were caused by the old Chelsea Street Bridge which will be completely replaced in early FY 2011.

Potential Recipient: Massachusetts Port Authority

Location: Boston, Massachusetts

Purpose: Wind Turbines at Fish Pier

Request: \$2.5 million

Project Description: This funding would go towards structural and electrical design and capital construction of wind turbines at Fish Pier.

Potential Recipient: Massachusetts State Police

Location: Boston, Massachusetts

Purpose: First Responder Communication Devices

Request: \$180,000

Project Description: For the purchase of twenty handheld, portable, multi-band two-way radios for first responders.

Potential Recipient: Massachusetts State Police

Location: Boston, Massachusetts

Purpose: SEAFILIR installation project

Request: \$1 million

Project Description: For the purchase and installation of three all-weather thermal imaging and color video surveillance camera systems on three Massachusetts State Police Marine Unit patrol vessels.

Potential Recipient: Mass Mentoring Partnership

Location: Statewide

Purpose: Mentoring Programs for At-Risk Children and Youth

Request: \$360,000

Project Description: The requested funding would help Mass Mentoring Partnership in its comprehensive approach to expand and enhance the impact and availability of quality mentoring programs for at-risk children and youth.

Potential Recipient: MassMEP

Location of project: Statewide

Purpose: New England Mobile Outreach Skills Training Program

Request: \$5 million

Project Description: The requested funding would be used to continue the deployment of the Mobile Outreach Skills Training (M.O.S.T.) program as an immediate job creation solution by which up to 750 individuals from the underserved populations including the unemployed, underemployed, returning Veterans, welfare recipients, and youth would be trained and placed in existing entry level manufacturing positions.

Potential Recipient: Materials Systems Inc.

Location: Littleton, MA

Purpose: Cost Reduction Effort for MK54 Arrays

Request: \$4,000,000

Project Description: Requested funding will be used for manufacturing scale up and cost reduction of the MSI MK54 torpedo composite array, allowing the Navy to reach rate production of the upgraded Mk54 torpedo homing system at the lowest currently achievable cost by 2012 and beyond.

Potential Recipient: May Institute

Location of project: Randolph, Walpole, Fall River, West Roxbury, and West Springfield, Massachusetts

Purpose: Expansion of Autism Spectrum Disorder (ASD) Diagnostic & Intervention Program

Request: \$1.75 million

Project Description: The requested funds will be used to expand Autism Spectrum Disorder (ASD) Diagnostic & Intervention programs for children and adolescents throughout the Commonwealth and provide critical autism diagnostic services to underserved populations in Randolph, Walpole, Fall River, West Roxbury, and West Springfield. This includes parent training on ASD and counseling for families of newly diagnosed children.

Potential Recipient: McCormack Graduate School of Policy Studies - University of Massachusetts Boston

Location of project: Boston, Massachusetts

Purpose: Give US Your Poor: The Campaign to End Homelessness

Request: \$250,000

Project Description: The requested funding would be used to complete extensive national outreach to find qualified homeless students and award multiple college scholarships and to expand a national, non-partisan, evidence-based public education campaign to help end homelessness.

Potential Recipient: McKinney-Vento Homeless Assistance Grants at Department of Housing and Urban Development

Location: Nationwide

Purpose: To support homeless assistance and re-housing programs

Request: \$2.4 billion

Project Description: This program provides more cost-effective continuums that identify and fill the gaps in housing and services that are needed to move homeless families and individuals into permanent housing.

Potential Recipient: Melmark New England

Location of project: Andover, Massachusetts

Purpose: Pilot Project for Successful Transition to Adult Services for ASD Individuals

Request: \$1 million

Project Description: The requested funds would be used to develop a pilot project to demonstrate an appropriate model with staffing and resources for high profile individuals with autism spectrum disorders in transition from school services to adult services.

Potential Recipient: Mentoring Children of Prisoners program at Department of Justice

Location: nationwide

Purpose: to fund mentoring programs directed at the children of prisoners

Request: \$493 million

Project Description: Children of prisoners face increased challenges and are more likely to become incarcerated themselves. Through high quality mentoring programs these children are given a support system to keep them out of trouble and in school.

Potential Recipient: Mercy Medical Center (Sisters of Providence Health System)

Location of project: Springfield, Massachusetts

Purpose: Patient Safety and Health Outcomes Improvement Project

Request: \$500,000

Project Description: The requested funding would be used to upgrade specialized surgical and patient monitoring equipment in the Operating Rooms and in the newly renovated Post Anesthesia Care Unit to enhance patient safety and improve health outcomes in a variety of diagnostic areas, such as, but not limited to: anesthesia, thoracic and gastroenterological surgery, lung and esophageal surgery, gynecological surgery, bariatric surgery, urology and eye surgery.

Potential Recipient: Merrimack College

Location of project: North Andover, Massachusetts

Purpose: Merrimack College's School of Education

Request: \$250,000

Project Description: Requested funding would provide support for three critical programmatic initiatives within the newly formed School of Education at Merrimack College, focusing on working with children, parents, school districts, and other postsecondary institutions throughout Massachusetts to address the critical issues of teacher preparation and student performance.

Potential Recipient: Merrimack College

Location of project: North Andover, Massachusetts

Purpose: Planning and Construction of the Merrimack College Veterans Memorial Field

Request: \$500,000

Project Description: The requested funds would be used to renovate Warrior Field to create the Merrimack College Veterans Memorial Field to honor the many veterans within the Merrimack Valley community. These renovations will increase the current field's capacity to welcome Merrimack Valley community members onto the campus.

Potential Recipient: MetroLacrosse Inc.

Location: Dorchester, Massachusetts

Purpose: MetroLacrosse National Capacity Building Program

Request: \$1 million

Project Description: The requested funding would directly support urban sports based youth development programs that teach and promote the value of physical activity for overall health through the sport of lacrosse.

Potential Recipient: Middlesex Community College

Location of project: Lowell and Bedford, Massachusetts

Purpose: Dental Hygiene Clinic Modernization Project

Request: \$450,000

Project Description: The requested funding would be used to complete the modernization of the Middlesex Community College Dental Hygiene Clinic which provides critical free and low-cost dental services to uninsured seniors and children in Massachusetts.

Potential Recipient: Middlesex Community College and the North Eastern Massachusetts Law Enforcement Council (NEMLEC)

Location: Lowell, Bedford and Woburn, Massachusetts

Purpose: Regional Crime Analysis Resource Center

Request: \$800,000

Project Description: Middlesex Community College will provide NEMLEC departments with regional crime analysis training to allow for better coordination of data and strategy among the multiple departments and the development of a college-level course in crime analysis.

Potential Recipient: Mikel, Inc.

Location: Fall River, MA

Purpose: Weapon Acquisition and Firing System (WAFS)

Request: \$3,000,000

Project Description: Funding requested for this project will support the continued development of a Weapon Acquisition and Firing System (WAFS). WAFS is a system that provides an accurate target solution and aids submarine command to properly configure the weapon and execute on procedures to acquire the target.

Potential Recipient: Military Burn Trauma Research Program at the Department of Defense

Location: Nationwide

Purpose: Military burn research

Request: \$8 million

Project Description: This funding will advance burn treatment and care for hundreds of injured service members who have suffered significant burn injuries since the start of the wars in Iraq and Afghanistan.

Potential Recipient: Millivision Technologies

Location: South Deerfield, Massachusetts

Purpose: Next Generation Passive Millimeter Wave Body Scanner

Request: \$2.5 million

Project Description: The requested funding would go to accelerate the development of a next generation a high performance passive millimeter wave concealed threat and object detection system for security applications (body scanner).

Potential Recipient: Milton S. Eisenhower Foundation

Location: Dorchester, Massachusetts

Purpose: Dorchester Youth Collaborative

Request: \$600,000

Project Description: This funding would be used for the replication and evaluation of model programs for at-risk youth in the Dorchester area of Boston.

Potential Recipient: Mount Wachusett Community College

Location: Garner, Massachusetts

Purpose: Energy Audit and Weatherization Mobile Field Unit

Request: \$250,000

Project Description: Develop and deploy a sustainability-themed mobile training unit that will be used by students and workers for training or retraining for jobs in renewable energy fields.

Potential Recipient: Mullen Communications

Location: Boston, MA

Purpose: Joint Advertising, Market Research and Studies (JAMRS)

Request: \$41,000,000

Project Description: The program complements and bolsters the effectiveness of all the Services' recruiting and retention efforts by educating and informing adult influencers about military service as a career option for their child and by supporting the needs of the Services' recruitment initiatives. The primary mission of JAMRS is to increase the propensity toward military service by creating a positive image of the U.S. Armed Forces among youth, their parents, other adult influencers, and the American public.

Potential Recipient: Multiple Sclerosis (MS) research at the Department of Defense through the Congressionally Directed Medical Research Programs (CDMRP)

Location: Nationwide

Purpose: funding to support research for treatment of MS

Request: \$15 million

Project Description: Provides funding for research of more effective treatments for patients with Multiple Sclerosis

Potential Recipient: Museum of Fine Arts (MFA)

Location: Boston, Massachusetts

Purpose: Preserving America's Heritage

Request: \$1,250,000

Project Description: The requested funding would assist the MFA in expanding the availability of Teen Arts Council (TAC) program to disadvantaged and at-risk youth.

Potential Recipient: Museum of Science, Boston

Location of project: Boston, Massachusetts

Purpose: School Leadership & Teacher Training in Technology & Engineering Education

Request: \$500,000

Project Description: The requested funds would be used by the National Center for Technological Literacy (NCTL) at the Museum of Science to promote adoption of best practices in engineering education across the Commonwealth of Massachusetts through their established leadership and teacher training programs.

Potential Recipient: Museum of Science

Location: Boston, Massachusetts

Purpose: The Engineering of Sustainability

Request: \$1.3 million

Project Description: This project includes the development and installation of new exhibits, the creation of related programming, and concurrent media initiatives centered on thinking critically

Potential Recipient: My Turn Inc.

Location: Brockton, Fall River, Fitchburg, Lynn, New Bedford, and Randolph, Massachusetts

Purpose: GED Plus Program for Out-of-School Youth

Request: \$800,000

Project Description: The requested funding would go towards providing out-of-school youth in six Massachusetts cities with high dropout and youth unemployment rates, help in earning General Equivalency Diplomas while also receiving an industry-recognized certification, improving employment and wage-earning prospects. The project will expand the award-winning model to five Massachusetts communities.

Potential Recipient: mZeal Communications

Location: Fitchburg, MA

Purpose: Application Assembly with Cyber Defense (AACYD)

Request: \$3,500,000

Project Description: Requested funds will be utilized to develop a technology that reduces time from software design to fielding from 18 months to days or weeks. It allows for quickly deploying secure applications to meet unanticipated user needs.

Potential Recipient: Naismith Memorial Basketball Hall of Fame

Location: Springfield, Massachusetts

Purpose: Inner-City Youth Education and Leadership Programs

Request: \$600,000

Project Description: The requested funding would to sponsor an after-school educational and leadership program for youth, at risk, in the Greater Springfield area.

Potential Recipient: Nano Surfaces Inc.

Location: Boston, Massachusetts

Purpose: Non-toxic Antimicrobial Coatings

Request: \$1 million

Project Description: The requested funds would be used to complete the development of bioresistant coatings. This material will reduce hospital-acquired-infections, medical device infections, as well as food and water supply contaminations that are currently increasing in magnitude due to current protective failures.

Potential Recipient: NanoTerra Inc.

Location: Cambridge, Massachusetts

Purpose: Novel Polymer Nanofibers (NF) as CO2 Adsorbents

Request: \$3.2 million

Project Description: This funding will support the development of a low-cost nanofiber-based sorbent designed to sequester CO2 directly from flue gas in coal fired electric power plants.

Potential Recipient: National Archives and Records Administration

Location: College Park, Maryland

Purpose: to create an online repository of records on the life and death of Dr. Martin Luther King

Request: \$500,000

Project Description: This funding would be used to create a central online repository of archives documents relating to the life and death of the historic civil rights leader Dr. Martin Luther King Jr.

Potential Recipient: National Braille Press

Location of project: Boston, Massachusetts

Purpose: Affordable Braille Notetaker/PDA for Blind Students and Adults in the workforce

Request: \$1 million

Project Description: The requested funding would be used to combat the low literacy rate among blind children today by creating an affordable electronic PDA (personal digital assistant) that will give blind students the ability to download textbooks, homework, take notes in class, participate actively along with their sighted peers in the classroom, and it will give adults a vital tool to manage their work responsibilities that require email, internet access, and other digital communication.

Potential Recipient: National District Attorney's Association

Location: National Program housed in Columbia, South Carolina

Purpose: State and Local Prosecutor Training Program at the National Advocacy Center

Request: \$4.75 million

Project Description: The State and Local Prosecutor Training Program at the National Advocacy Center (NAC), is a joint venture of the National District Attorneys Association (NDAA) and the U.S. Department of Justice to provide state and local prosecutors with the specific education and training needed to most effectively perform their duty. This request is supported by the Massachusetts District Attorney's Association.

Potential Recipient: National Heritage Area Program

Location: Nationwide

Purpose: Support National Heritage Areas

Request: \$18 million

Project Description: This funding would preserve the ability of the National Heritage Areas (NHAs) to continue their work to sustain partnerships that foster job creation and economic, cultural, historic, environmental, and community development.

Potential Recipient: National Estuarine Research Reserve System (NERRS) at the Department of Commerce

Location: Nationwide

Purpose: Support National Estuaries

Request: \$48.6 million

Project Description: NERRS works with local communities and regional groups to address natural resource management issues, such as non-point source pollution, habitat restoration and invasive species. Research and training conducted within the System improves management of our coastal resources.

Potential Recipient: National Institute of Food and Agriculture at the Department of Agriculture

Location: Nationwide

Purpose: Veterinary Student Loan Forgiveness

Request: \$5 million

Project Description: This funding will address the critical shortage of veterinarians by helping to implement the National Veterinary Medical Services Act, which allows forgiveness of student loans if the student chooses to work in underserved areas.

Potential Recipient: National Marine Fisheries Service at the Department of Commerce

Location: Nationwide

Purpose: Cooperative Research

Request: \$10 million over the President's request for a total of \$17.1 million

Project Description: Increased funding will provide much needed data and increase fishing industry confidence in the science being used to make management decisions.

Potential Recipient: National Marine Fisheries Service at the Department of Commerce

Location: Nationwide

Purpose: Fisheries observers

Request: \$10 million over the President's request for a total of \$48.8 million

Project Description: Additional funding will provide improved data and increase industry confidence in the science being used to make management decisions.

Potential Recipient: National Marine Fisheries Service at the Department of Commerce

Location: Nationwide

Purpose: Fisheries Statistics

Request: \$11 million over the President's request for a total of \$32.4 million

Project Description: This funding is needed to ensure timely data collection and analysis that will result in real time management decisions that both the Councils and the recreational fishing industry have sought.

Potential Recipient: National Marine Fisheries Service at the Department of Commerce

Location: Nationwide

Purpose: Stock Assessments

Request: \$10 million over the President's request for a total of \$61.7 million

Project Description: Increased funding will reduce the scientific and management uncertainty that limits the ability of the Councils to set ACLs that maximize catch while rebuilding fish stocks.

Potential Recipient: National Marine Fisheries Service at the Department of Commerce

Location: Nationwide

Purpose: Fisheries Extramural Education and Research Partnership

Request: \$10 million

Project Description: These funds will support partnerships between NMFS and the academic community to provide NMFS access to high-value research and educational assets as it deals with the numerous scientific, technical and human resource issues associated with both ecosystem-based management and changes in the ocean environment.

Potential Recipient: National Marine Fisheries Service at the Department of Commerce

Location: Nationwide

Purpose: Survey and Monitoring Projects

Request: \$6 million over the President's request for a total of \$30 million

Project Description: Additional funding will improve estimates of stock size and fishing impacts—another critical aspect of setting allowable catch limits that maximize catch while rebuilding fisheries.

Potential Recipient: National Oceanographic and Atmospheric Administration (NOAA)

Location: The North East

Purpose: Fishery Capacity Reduction Program

Request: \$30 million

Project Description: The requested funds will be used to remove approximately 25 percent of the fishing capacity in the Northeast Multispecies Fishery, also known as the New England groundfishery. This reduction will enable the fishery to become more sustainable for the future. Without such assistance, the region risks severe job losses from the rapid decline of this important industry.

Potential Recipient: National Rural Water Association Programs

Location: Nationwide

Purpose: Support rural water initiatives

Request: \$16.8 million

Project Description: This funding will support the National Rural Water Association's efforts to help rural communities protect their water quality and comply with the Environmental Protection Agency's mandates.

Potential Recipient: National Sea Grant Program

Location: Nationwide

Purpose: Address national, regional, and local coastal, and ocean issues

Request: \$79.5 million

Project Description: This funding will support research and outreach to provide coastal communities and industries with the best available science-based information for decision-making, coupled with the knowledge, experience and tools needed to bring diverse coastal interests together.

Potential Recipient: The Nature Conservancy

Location: The project includes six dams in Massachusetts including Knightville Dam, Littleville Dam, Barre Falls Dam, Birch Hill Dam, Tully Lake Dam and Conant Brook Dam.

Purpose: Connecticut River Watershed Study, U.S. Army Corps of Engineers, New England District

Request: \$750,000

Project Description: The study will examine the potential for flow restoration of 410 miles and 100,000 acres of natural communities along the Connecticut River and its important tributaries.

Potential Recipient: NeuroDyne Medical Corp.

Location: Cambridge, MA

Purpose: IPalmSecure Physio-Biological Security Sensor

Request: \$5,000,000

Project Description: This funding will be used to advance technology that is designed to monitor biomedical and physiological signature while uniquely identifying a person of interest out of many to provide security from a "secure" employee or person of interest. This will add a new dimension to the critical requirement of identification and verification at checkpoints for securing military and government facilities against inside threats. The final objective of this request is to develop a handheld biological and physiological sensor to certain identification technologies.

Potential Recipient: New Bedford Whaling Museum

Location of project: New Bedford, Massachusetts

Purpose: Education through Cultural and Historical Organizations

Request: \$1.5 million

Project Description: The requested funding would support access to educational programs, cultural exchanges, paid internships, and museum collections through exhibitions, performances, new media initiatives, curriculum development and collaborations with partner organizations and schools that reach culturally diverse audiences throughout the United States.

Potential Recipient: New England Aquarium

Location: Boston, Massachusetts

Purpose: Consortium for Wildlife Bycatch Reduction

Request: \$2 million

Project Description: This funding would go to study the causes and nature of wildlife entanglement in fishing gear. The collateral mortality of non-target marine animals is referred to as “bycatch,” and is one of the principal threats to marine biodiversity worldwide.

Potential Recipient: New England College of Optometry (NECO)

Location of project: Boston, Massachusetts

Purpose: NECO EHR Curriculum Demonstration Project

Request: \$3,146,275

Project Description: The requested funding would be used to develop an Electronic Health Records (HER) curriculum for classroom and hands-on laboratory education. This will make students more efficient and make fewer errors when they first see patients in a setting that requires them to use an EHR. This data can be extrapolated to all health care teaching facilities.

Potential Recipient: New England College of Optometry

Location: Boston, MA

Purpose: Retinal Screening for Early Detection of Traumatic Brain Injury

Request: \$1,517,000

Project Description: This proposal evaluates the potential of using high-resolution images of the retinal cell mosaic as a marker for early diagnosing of Traumatic Brain Injury (TBI).

Potential Recipient: The Town of Newbury

Location: Newbury, Massachusetts

Purpose: Merrimack River Coastal Planning Project

Request: \$750,000

Project Description: The requested funding will undertake studies to make more effective uses of sediment from inlets and other sources, enhance environmental habitat, improve the collection and dissemination of data about the movement of sediment, facilitate cooperation among federal and non-federal interests, and assure the most effective use of taxpayer funds.

Potential Recipient: The Town of Newbury

Location: Newbury, Massachusetts

Purpose: Repair of Newbury Harbor

Request: \$5 million

Project Description: The purpose of this project is to repair the Newburyport Harbor South Jetty. The south jetty is now in serious disrepair. As such, it is not able to perform its function of reducing sediment accumulation in the Newburyport Harbor channel, and it may be contributing to the erosion of the adjacent downdrift shoreline on Plum Island.

Potential Recipient: The Town of Newbury

Location: Newbury, Massachusetts

Purpose: Study on Shore Erosion in Merrimack River Project

Request: \$500,000

Project Description: This project will undertake a regional approach to effectively utilize

littoral, estuarine, and riverine sediment resources in an environmentally effective and economical manner while protecting & re-nourishing coastal beaches.

Potential Recipient: City of Newton

Location: Newton, Massachusetts

Project: Communications Tower

Request: \$300,000

Project Description: The requested funding would help replace a vital first responder's communication tower.

Potential Recipient: City of Newton

Location of project: Newton, Massachusetts

Purpose: Senior Services

Request: \$350,000

Project Description: The requested funding would support the LiNCC-AGES project being led by City of Newton, Department of Senior Services (NDSS). LiNCC-AGES is a community collaboration among formal and informal services including city government, the ASAP and AAA, churches and synagogues, community-based groups, and individuals. The goal is to provide all Newton seniors the ability to age in place with dignity, in a "livable community" in which they feel supported and valued.

Potential Recipient: Northeastern University

Location: Boston, MA

Purpose: Northeastern University Center For Defense Sustainment

Request: \$4,000,000

Project Description: The requested funding will be utilized to focus research on novel manufacturing and repair technologies, advanced materials, and alternative energy. The technologies to be exploited include applications using cold spray, nanomaterials and nanomanufacturing, rare earth elements, and ferromagnetic materials.

Potential Recipient: Northeastern University

Location: Nahant, MA

Purpose: Autonomous Biomimetic Robotic Systems

Request: \$3,500,000

Project Description: This program's primary objective is to develop a robotic technology system that will perform unsupervised surveillance and mitigation functions in littoral and estuarine waters through cooperative heterogeneous swarms of semiautonomous biomimetic robots taking full advantage of recent scientific advances in neurotechnology.

Potential Recipient: Novomer

Location: Waltham, Massachusetts

Purpose: Carbon monoxide catalytic conversion research and development

Request: \$1 million

Project Description: Novomer, along with the University of Massachusetts, Lowell, is seeking research and development support to develop products that will be biodegradable and exhibit higher performance properties at lower cost compared to those they replace.

Potential Recipient: Nursing Workforce Development programs at the Department of Health and Human Services

Location: Nationwide

Purpose: To increase funding for nurse education programs to bolster the nursing workforce

Request: \$267.3 million

Project Description: The Nursing Workforce Development programs include advanced education nursing, nursing workforce diversity, comprehensive geriatric education, and nurse education, practice, and retention programs. These expand nursing school capacity and improve patient access to care.

Potential Recipient: Ocular Therapeutix, Inc.

Location: Bedford, MA

Purpose: Bioabsorbable Corneal Bandage for Refractive Surgery

Request: \$ 2,990,000

Project Description: Requested funds will be used to continue development and deployment of a bandage that will reduce or eliminate the pain and discomfort caused by vision repair surgery and to improve vision during the healing period. Corrective vision surgery is especially important for military personnel such as fighter pilots, divers, and combat troops.

Potential Recipient: Ocean Acidification

Location: Nationwide

Purpose: Research and monitoring of ocean acidification

Request: \$20 million

Project Description: The requested funding will support greater research and monitoring to better understand how ocean acidification is impacting marine ecosystems and species and to develop strategies to help coastal and ocean industries address these changes.

Potential Recipient: Oceans and Human Health Initiative (OHHI)

Location: Nationwide

Purpose: research, education, and training about human health and the oceans

Request: \$12 million

Project Description: This funding will support cutting-edge research to improve the understanding and management of our oceans, coasts, and lakes to enhance the benefits to human health and reduce public health risks.

Potential Recipient: Ocean/Marine Renewable Technologies program at the Department of Energy

Location: Nationwide

Purpose: Support the development of ocean energy technologies

Request: \$100 million

Project Description: These funds would help accelerate basic and applied technology research and development and demonstration projects for technologies such as tidal, wave, and current energy.

Potential Recipient: Office of Healthy Homes and Lead Hazard Control (HUD)

Location: Nationwide

Purpose: To help end childhood lead poisoning

Request: \$224 million

Project Description: The program provides grants to states and local government to reduce lead paint in homes with children focusing on low-and moderate income areas.

Potential Recipient: Office of Inspector General at the Department of Agriculture

Location: Nationwide

Purpose: Animal Fighting Enforcement

Request: \$90 million

Project Description: This funding will support increases efforts to combat illegal animal fighting activity.

Potential Recipient: Office of Orphan Products Development at the FDA

Location: nationwide

Purpose: to improve children's access to safe and effective medical devices

Request: \$6 million

Project Description: To provide grants to non-profit pediatric medical device consortia, which assist scientists and innovators, particularly small businesses, with technical and financial resources to improve the number of medical devices available to children.

Potential Recipient: Office of Refugee Resettlement (ORR) at the Department of Health and Human Services

Location: nationwide

Purpose: for treatment of victims of torture

Request: \$11 million

Project Description: The ORR grant program funds treatment centers in the U.S. that provide rehabilitative services, as well as social and legal services, to victims of torture. The grant program can also fund research and training for health care providers outside such treatment centers. The refugees and asylees have come to the U.S. in flight from brutal regimes in Iraq, Burma, Sudan, and elsewhere.

Potential Recipient: Older Americans Act programs

Location: Nationwide

Purpose: To ensure that the funding for community social services for older Americans keeps pace with inflation and an aging population

Request: An overall increase of at least 12% in appropriations for all Older Americans Act (OAA) programs

Project Description: To fund critical services to long-term care services and supports for older adults, such as: information and referral, home care, home-delivered meals (Meals On Wheels), adult day care, legal services, transportation and caregiver support.

Potential Recipient: Peabody Essex Museum (PEM)

Location of project: Salem, Massachusetts

Purpose: Education through Cultural and Historical Organizations

Request: \$1.5 million

Project Description: The requested funding would support access to educational programs, cultural exchanges, paid internships, and museum collections through exhibitions, performances,

new media initiatives, curriculum development and collaborations with partner organizations and schools that reach culturally diverse audiences throughout the United States.

Potential Recipient: Pediatric cancer research programs at the Department of Health and Human Services

Location: Nationwide

Purpose: pediatric cancer research, awareness, and the creation of a national childhood cancer registry

Request: \$30 million

Project Description: This would fund the goals of the Caroline Pryce Walker Conquer Childhood Cancer Act for increased pediatric cancer research, and the creation of a national childhood cancer registry.

Potential Recipient: Peer-Reviewed Breast Cancer Research Program at the Department of Defense

Location: Nationwide

Purpose: funding to support research for prevention, early detection, and treatments for breast cancer

Request: \$150 million

Project Description: Provides funding for competitive research grants focused on prevention, early detection, and treatments for breast cancer

Potential Recipient: Performance Indicator, LLC

Location: Lowell, MA

Purpose: Dynamic Camouflage

Request: \$5,000,000

Project Description: This project is for the development of a new camouflage called “Dynamic Camouflage” for ground, air, and sea vehicles as well as uniforms and personal equipment. The camouflage scheme comprising colors, their brightness, and their shape and pattern can be varied to better match the region (desert, tropics etc) and the environment (bright sunny day, cloudy, dusk, dawn etc) this creating a tactical advantage.

Potential Recipient: Perkins School for the Blind

Location of project: Watertown, Massachusetts

Purpose: Help for Children Who Are Deaf-blind

Request: \$250,000

Project Description: The requested funds would be used to provide training and support for teachers and families, with the goal of improving the lives and creating hopeful futures for children who are deaf-blind.

Potential Recipient: Phoenix House

Location: Springfield, Massachusetts

Purpose: Phoenix House Drug Treatment Enhancement Initiative for Western Massachusetts

Request: \$1.2 million

Project Description: This funding would be used to develop supportive transitional living, thereby expanding re-entry and supportive drug treatment services, in Springfield and the

surrounding area. Such efforts would be coupled with intensive case management and access to medical care and integrated mental health services.

Potential Recipient: Physical Sciences Inc.

Location: Andover, MA

Purpose: Common Torpedo Sonar Processor

Request: \$4,200,000

Project Description: A convergence of investments in wideband sonar arrays, advanced signal processing, and high performance computer processors creates an opportunity to back fit new sonar processing techniques in the current torpedo inventory, thereby significantly extending their operational life and reducing maintenance costs and inventories while improving performance. Funding for this program will allow for the development and testing of the Next Generation, Common Torpedo Signal Processor.

Potential Recipient: Physical Sciences Inc.

Location: Andover, MA

Purpose: Sensors for Terrorist IED Network Defeat

Request: \$4,500,000

Project Description: The funding will support the development of a fieldable system for standoff explosives detection, test and evaluate that system in relevant scenarios, and enable its deployment in Afghanistan and Iraq.

Potential Recipient: Pioneer Valley Life Sciences Institute

Location of project: Springfield, Massachusetts

Purpose: Translational Biomedicine: New Solutions to Old Clinical Problems

Request: \$2 million

Project Description: The requested funding would support the Pioneer Valley Life Sciences Institute's collaboration with Baystate Medical Center's practicing physicians/clinicians and University of Massachusetts researchers from several departments, most notably Biology, Polymer Sciences and Engineering to create new solutions for clinical problems. It has unique strengths in several key areas, including: Biopolymers, Anti-Cancer therapeutics, Breast Cancer Susceptibility; and Endocrine Disrupting Chemicals.

Potential Recipient: Pioneer Valley Planning Commission

Location: Springfield, Chicopee, Holyoke, and Ludlow, Massachusetts

Purpose: Wastewater pollution containment from combined sewer overflows

Request: \$5.5 million

Project Description: This funding would be used for the design and construction of multiple projects to reduce or eliminate combined sewer overflows to the Connecticut River.

Potential Recipient: Plant and Disease Management Revolving Loan Fund

Location: Nationwide

Purpose: Help municipalities manage the spread of invasive species

Request: \$2 million

Project Description: Invasive pests and diseases have caused significant damage to our nation's tree populations and threaten to harm vast regions across the United States. The

requested funding will provide low-interest loans to help municipalities manage the spread of invasive species.

Potential Recipient: PointCare Technologies Inc.

Location: Marlborough, MA

Purpose: Point of Care ARV Management with Viral Load and Toxicity Markers

Request: \$6,800,000

Project Description: Requested funds will be used to expand upon an enabling nanotechnology-based biochemical assay for HIV monitoring and treatment to develop assays targeted towards viral load, critical care, and toxicity markers.

Potential Recipient: Polartec LLC

Location: Lawrence, MA

Purpose: Responsive Textiles

Request: \$2,000,000

Project Description: The requested funds will be used to develop a Responsive Textile fabric that will physically react to surrounding temperature changes, including body temperature and outdoor climate. When exposed to cold temperatures, the Responsive Textile fibers will expand, thus trapping body heat and creating thermal insulation. When exposed to warm air, the Responsive Textile fibers will contract, offering less insulation.

Potential Recipient: Premium Power Corporation

Location: North Reading, MA

Purpose: Micro-Grid Energy Storage Utilizing a Deployable Zinc-Bromide Flow Battery For Military and Disaster/Humanitarian Missions

Request: \$10,000,000

Project Description: This funding will be utilized to further develop zinc-bromide regenerative fuel cells for utilization in an Advanced Military Micro-grid application with deployable energy storage modules and for on-base renewable power firming, shifting, and load leveling applications.

Potential Recipient: PrimeraDx

Location: Mansfield, MA

Purpose: Multiplex Human Fungal Infection Diagnostic

Request: \$3,000,000

Project Description: The project goal is to evaluate a diagnostic molecular test for its ability to detect and quantify pathogenic fungal load in subjects, thereby decreasing mortality rates, accelerating restoration to function, and reducing the direct costs of care.

Potential Recipient: Prostate Cancer Research Program at the Defense Department

Project Location: National

Purpose: To improve treatment options for individuals with prostate cancer

Request: \$125 million

Project Description: To support prostate cancer research through the Peer-Reviewed Prostate Cancer Research Program at the Department of Defense

Potential Recipient: Prostate Health Education Network, Inc.

Location of project: Boston, Massachusetts

Purpose: Rally against Prostate Cancer

Request: \$250,000

Project Description: The requested funding would support an initiative that combines the outreach leadership efforts of prostate cancer survivors, cancer center partners, the power of the internet, radio and television broadcasts for a broad and visible effort to address the prostate cancer crisis.

Potential Recipient: Protonex Technology Corporation

Location: Natick, MA

Purpose: Alternative Bio-Fuel Portable Power System

Request: \$2,800,000

Project Description: The requested funds will permit The Army Research Lab (ARL) at Natick to continue the development, field testing and pilot deployment of high performance fuel cell power systems. These power systems, which produce between 100-1,000 watts, have demonstrated significant performance improvements over incumbent technologies.

Potential Recipient: Provincetown Center for Coastal Studies

Location: Provincetown, Massachusetts

Purpose: Northeast Coastal Monitoring Collaborative

Request: \$1.3 million

Project Description: The Provincetown Center for Coastal Studies along with the Cape Cod Commercial Hook Fishermen's Association, Coalition for Buzzards Bay, Nantucket Soundkeepers, Lewis Bay Research Center, Salem Sound Coastwatch, Save the Bay Narragansett Bay, Applied Analysis, Inc., are seeking funding to conduct their Northeast Coastal Monitoring Collaborative.

Potential Recipient: QD Vision

Location: Watertown, MA

Purpose: NanoCrystal Source Display

Request: \$850,000

Project Description: This funding request is to allow the Army Research Laboratory (ARL) to continue the development of strategically important display technologies utilizing nanocrystals as the emissive source within the display.

Potential Recipient: Qteros Inc.

Location: Chicopee, Massachusetts

Purpose: Biomass to Clean Fuel: Cellulosic Ethanol Pretreatment Pilot, Phase II

Request: \$1 million

Project Description: To expand a current pretreatment pilot facility to demonstrate that a variety of non-food feedstocks, including wood, can be converted to ethanol.

Potential Recipient: Quinsigamond Community College (QCC)

Location of project: Worcester, Southbridge, Marlborough, Blackstone Valley and Milford, Massachusetts

Purpose: Satellite Campus Development and Support

Request: \$1.5 million

Project Description: The requested funds would be used to support QCC's expanding educational and regional workforce development role in Worcester County through satellite campus development in Worcester, Southbridge, the Blackstone Valley and Milford region, and Marlborough.

Potential Recipient: Radiation Monitoring Devices

Location: Watertown, MA

Purpose: New Technology for Detecting Nuclear Weapons Materials

Request: \$3,000,000

Project Description: Requested funds will allow for the continued research of a new class of higher quality and more cost efficient nuclear radiation detectors. These new high performance detectors will be used by the military to detect and identify radioactive materials used in nuclear weapons and dirty bombs and will offer significant cost savings and operational improvements over existing technology.

Potential Recipient: Rape, Abuse & Incest National Network (RAINN)

Location: Nationwide

Purpose: Support for sexual abuse victims

Request: \$3 million

Project Description: Funding would be used to support the online and telephone RAINN hotline to provide support for victims as well as rape education and outreach programs.

Potential Recipient: Raytheon Company

Location: Andover, MA

Purpose: F-15C AESA Radar for Air National Guard

Request: \$62,400,000

Project Description: Procurement of additional AESA radars and the associated Embedded Global Positioning Satellite/Inertial Navigation (EGI) System is the Air National Guard's number one priority for F-15 upgrades. The requested funding will maintain production efficiencies and avoid a production gap that would increase the total program cost.

Potential Recipient: Raytheon Company, Integrated Defense Systems (IDS)

Location: Andover, MA

Purpose: Patriot - U.S. Army 16th Battalion

Request: \$160,000,000

Project Description: Originally, the Total Army Analyses (TAA) established a force structure requirement for 72 Patriot Advanced Capability (PAC-3) Fire Units (FUs) to meet worldwide operational need. At present, a force of 15 Battalions exists. Funding for this request would allow the Army to field an additional Battalion. Patriot is a High Demand/Low Density (HD/LD) Department of Defense asset and thereby figures prominently in all theater contingency force plans to include Homeland Defense and, as a continually evolving system, will remain the foundation of U.S. air and missile defense for decades to come.

Potential Recipient: Raytheon Company, Integrated Defense Systems (IDS)

Location: Sudbury, MA

Purpose: Space Situational Awareness (SSA)

Request: \$6,000,000

Project Description: This funding will support field experiments to test the operational capability of Missile Defense Agency sensors. Results from this effort will posture both the Missile Defense Agency and Air Force Space Command (AFSPACE) for a joint Quick Reaction Program to deploy this multi-mission capability to quickly expand space surveillance capability.

Potential Recipient: Raytheon Company, Integrated Defense Systems

Location: Andover, MA

Purpose: AN/TPY-2 radar

Request: \$41,000,000

Project Description: This funding would support TPY-2 radar production in Fiscal Year 2011 which not only addresses the national defense need for AN/TPY-2 defensive systems but also addresses the supplier gap that was created in 2009.

Potential Recipient: Reach Out and Read

Location: Headquartered in Boston, nationwide program

Purpose: Support an effective outreach program between pediatricians and families to encourage children to read

Request: \$10 million

Project Description: To develop essential literacy skills, Reach Out and Read engages pediatricians and other health providers in guiding and encouraging parents to read aloud to their children from the earliest years of life, and sends them home from each doctor visit with a prescription to read aloud together.

Potential Recipient: Reading is Fundamental

Location: Nationwide

Purpose: Inexpensive book distribution program

Request: \$25 million

Project Description: This funding will support Reading is Fundamental's literacy initiatives through their book distribution program. Last year alone 15 million books were given out, and over 111,000 children in Massachusetts were served.

Potential Recipient: Regional Information Sharing System

Project Location: Nationwide

Purpose: To facilitate information sharing across law enforcement agencies

Request: \$45 million

Project Description: This funding would go towards information sharing, analytical and investigative support, training, equipment loans and additional resources to state and local law enforcement agencies.

Potential Recipient: Regis College

Location of project: Weston, Massachusetts

Purpose: Science Laboratory Upgrades in biology, biochemistry and chemistry

Request: \$400,000

Project Description: The requested funding would be used to upgrade scientific labs in the fields of genomics, nanotechnology and nursing simulation. Regis College is the only New

England designee determined by the National League of Nursing to be a Center of Excellence in Nursing Education. This request would help support their nursing programs.

Potential Recipient: Research on antibiotic use in livestock at the Department of Agriculture

Location: Nationwide

Purpose: to examine safety of using antimicrobial drugs on livestock that are not sick

Request: \$8 million

Project Description: This funding would be used to study the safety of using antimicrobial drugs on livestock that are not sick; and include funding for the Research and Education Grants for the Study of Antibiotic Resistant Bacteria grant program to help find ways to reduce dependence on the sub-therapeutic use of antibiotics in livestock production.

Potential Recipient: Roca

Location: Chelsea, Massachusetts

Purpose: Roca Springfield Project

Request: \$500,000

Project Description: The requested funding would support the expansion of Roca's high risk intervention model in Springfield, Massachusetts.

Potential Recipient: Roca

Location: Chelsea, Massachusetts

Purpose: Drop-Out Prevention Project for Very High-Risk Youth

Request: \$500,000

Project Description: In partnership with Chelsea High School, Roca is creating an innovative dropout prevention model for the youth most at risk of dropping out or expulsion that other programs cannot effectively engage or support.

Potential Recipient: Rolls-Royce Naval Marine Inc (RRNMI)

Location: Walpole, MA

Purpose: LCS Axial Flow High Power Density Waterjets

Request: \$4,250,000

Project Description: Funding for this request will provide a complete set of four Axial Flow High Power Density Waterjets. The Axial Flow High Power Density Waterjets have been model tested in a joint effort with the Navy and have proven to be more efficient, less susceptible to cavitation erosion, and enabling of lower life cycle costs.

Potential Recipient: Roxbury Community College

Location of project: Roxbury, Massachusetts

Purpose: Massachusetts Biotechnology Educational Center

Request: \$4.3 million

Project Description: The requested funding would be used to purchase equipment and supplies for the Biotechnology, Biomanufacturing, and Life Sciences programs. The proposed renovation of the Center would broaden the College's curriculum and programs to accommodate for molecular biology, cell culture, biochemistry, green chemistry, environmental technologies, renewable energy certificates and retraining programs.

Potential Recipient: Rural Water Circuit Riders

Location: Nationwide

Purpose: Support rural drinking water and wastewater systems

Request: \$15.49 million

Project Description: This funding will support the Circuit Riders' efforts to assist small communities in operating safe, clean water systems. Circuit riders are in the field every day helping systems with compliance, operations, maintenance, management, rates and promoting local responsibility of protecting water resources.

Potential Recipient: Rural Water Infrastructure Grants and Loans

Location: Nationwide

Purpose: Support rural drinking water infrastructures in order to accommodate small communities

Request: \$650 million

Project Description: This funding helps provide grants and loans with reasonable rates and terms to construct water and wastewater infrastructure. Without this assistance, many rural communities could not construct new systems, expand existing ones, or comply with mandates.

Potential Recipient: Salem State College

Location of project: Salem, Massachusetts

Purpose: Diversifying the Teacher Workforce

Request: \$400,000

Project Description: The requested funding would support a program to provide academic, financial and social support for students of color to prepare them as highly qualified teachers in order to meet the needs of the region's increasingly diverse student population.

Potential Recipient: Sappi Fine Paper

Location: Boston, MA

Purpose: Production of Wood-Based Diesel and Jet Fuel at Pulp and Paper Facilities

Request: \$6,500,000

Project Description: This funding will be used to construct and operate a demonstration-scale biorefinery integrated with a pulp and paper mill. The integrated biorefinery will produce biobutanol, which can be used as a blendstock for vehicle and aviation fuel and can be inexpensively converted into jet fuel and diesel.

Potential Recipient: Schepens Eye Research Institute

Location: Boston, MA

Purpose: Military Low Vision Research Program

Request: \$7,000,000

Project Description: This project will support the development of new technologies to protect military personnel from blinding eye trauma, develop new treatments for eye injuries, and examine innovative methods to enhance visual performance in combat situations.

Potential Recipient: School for Marine Science & Technology (SMAST)

Location: New Bedford, Massachusetts

Purpose: New England Multi-Species Surveys and Development

Request: \$3 million

Project Description: The requested funding would go to continue to improve the scientific information available for management in fisheries critical to Massachusetts and the New England region. The goal is to examine the population biology and dynamics of the multispecies complex of the Northeast and evaluate management options in support of fishery decisions. This research is critical to the sustainability of the Massachusetts fisheries and the local economy.

Potential Recipient: SCHOTT North America, Inc.

Location: Southbridge, MA

Purpose: Active Phosphate Fiber for Eye-Safe

Request: \$4,000,000

Project Description: The objective of the Active Phosphate Fiber for Eye-Safe Advanced Fiber Lasers project is to develop high gain fiber laser material, a key enabling technology for the next generation of laser weapons systems.

Potential Recipient: Scientific Systems Company, Inc.

Location: Woburn, MA

Purpose: ImageNav—Motion Image-based Navigation and Precision Targeting

Request: \$4,540,000

Project Description: This project would continue the development of ImageNav, an advanced software solution which exploits Tomahawk's TERCOM navigation system and existing on-board sensors to achieve 'GPS-like' accuracy without GPS guidance.

Potential Recipient: Sea Lab/New Bedford Public Schools

Location: New Bedford, Massachusetts

Project: Partnership for Marine Science

Request: \$150,000

Project Description: The requested funding would be used to expand an existing partnership between Sea Lab/New Bedford Public Schools and the Sea Research Foundation to dramatically increase the programming and number of students reached with both in-school and out of school programming involving real science expeditions being conducted around the world, and other hand-on marine science programming, connecting students with explorers, scientists, technicians and expedition leaders.

Potential Recipient: Second Chance Act programs at the Department of Justice

Location: Nationwide

Purpose: to fund programs authorized by the Second Chance Act

Request: \$100 million

Project Description: This funding will be given in the form of grants to local and state entities dedicated to lowering the recidivism rate and providing reentry services.

Potential Recipient: Section 4 Capacity Building Program at the Department of Housing and Urban Development

Location: Nationwide

Purpose: To maintain community development infrastructure

Request: \$60 million

Project Description: The program was created to maintain critical community development infrastructure and insure that community-based development organizations have the working capital to meet today's economic challenges.

Potential Recipient: Section 202 Supportive Housing for the Elderly program and the Section 811 program at the Department of Housing and Urban Development

Location: Nationwide

Purpose: To provide assistance for elderly and disabled housing

Request: \$60 million

Project Description: These two critical housing programs provide individuals with safe, accessible and affordable housing that promotes an independent lifestyle.

Potential Recipient: Self Employed Women's Association

Location: India

Purpose: Empowering India's Women Project

Request: \$200,000

Project Description: The requested funding would be distributed by USAID primarily for support and organization to build the capacity of women workers, to link women with the national and international market, and to develop a training and resource center for poor underprivileged women workers.

Potential Recipient: Semprus BioSciences

Location: Cambridge, MA

Purpose: Non-Leaching Antimicrobial Surface for Orthopedic Devices

Request: \$3,800,000

Project Description: Funding for this project will continue the development of an antimicrobial surface modification, which is permanently bonded to orthopedic device surfaces, in order to prevent bacterial attachment and growth on the surface.

Potential Recipient: Sex education programs at the Department of Education

Location: Nationwide

Purpose: to fund comprehensive, medically accurate, and age-appropriate sex education

Request: \$133,700,000

Project Description: This funding would support comprehensive, medically accurate, and age-appropriate sex education to help our nation's youth reduce their risk of unintended pregnancy, HIV, and other sexually transmitted infections (STIs)

Potential Recipient: SI2 Technologies, Inc.

Location: North Billerica, MA

Purpose: Conformal Wideband Phased Array for Next Generation Jammer

Request: \$2,000,000

Project Description: The requested funds will accelerate the design and development of wideband, conformal antennas for the Navy's Next Generation Jammer Program. The culmination of this research will provide improved Electronic Warfare capability against current and future threats to protect our nation's war fighters.

Potential Recipient: Signature Healthcare Brockton Hospital

Location of project: Brockton, Massachusetts

Purpose: Stereotactic Mammography Unit for Breast Biopsy

Request: \$500,000

Project Description: The requested funding would be used for the purchase of 'community standard' digital mammography equipment for non-invasive (non-surgical) biopsies of suspicious breast lesions. This will continue to allow the Hospital to upgrade breast cancer detection capability to address the continued health disparities in their community.

Potential Recipient: Silent Spring Institute

Location of project: Massachusetts

Purpose: Women's Health and the Environment: Breast Cancer Prevention Research

Request: \$750,000

Project Description: Silent Spring Institute will conduct scientific research and community education about endocrine disrupting compounds and mammary carcinogens from sources including air and water pollution, building materials, detergents, plastics, pesticides, and cosmetics.

Potential Recipient: Small Business microloan program

Project Location: Nationwide

Purpose: To provide funding for loan guarantee backing for the SBA microloan program and to provide technical assistance for the SBA microloan program

Request: \$26 million

Project Description: The SBA microloan program provides a lending source for small businesses as well as assistance in transitioning from microloans into more traditional business financing.

Potential Recipient: Solar Energy Program at the Department of Energy

Project Location: Nationwide

Purpose: Making solar power cost-competitive with conventional fuels

Request: \$337 million, with an additional \$10 million for solar heating and cooling within the Building Technologies Program

Project Description: This funding will be used to help meet the target of making solar power cost-competitive with conventional fuels across all market sectors by 2015. Under this scenario, solar would provide hundreds of thousands of high-tech jobs throughout the U.S.

Potential Recipient: Soluble Systems LLC

Location: Newport News, VA

Purpose: Smart Wound Dressing for MRSA-infected Battlefield Wounds

Request: \$4,000,000

Project Description: This funding will be utilized to conduct clinical research needed for the military to identify the most effective MRSA resistant antibiotics, the proper dosages of these antibiotics and the most efficient sizes and packages of dressings appropriate for the types of wounds experienced in battlefield situations.

Potential Recipient: South Berkshire Educational Collaborative

Location of project: Berkshire County, Massachusetts

Purpose: Building an Educational Service Agency for Berkshire County

Request: \$250,000

Project Description: The requested funds would be used for the development of educational and management services for the school districts of Berkshire County.

Potential Recipient: South Coast Health System

Location of project: Fairhaven, Massachusetts

Purpose: Launching a Radiation Oncology Program

Request: \$2 million

Project Description: The requested funding would go toward the launch of a radiation oncology program at a new, state-of-the-art facility to be located in Fairhaven. The new facility will offer the full range of cancer care services, not just radiation. There will be medical oncology, chemotherapy services, laboratory services, nutrition counseling, social services support, and other cancer-related services.

Potential Recipient: SouthCoast Mentoring Initiative for Learning, Education and Service, Inc.

Location: New Bedford and Fall River, Massachusetts

Purpose: 3,000 SMILES

Request: \$500,000

Project Description: The requested funding would be used for one-to-one mentoring relationships for 3,000 at-risk youth representing grades 1 through 12.

Potential Recipient: Specialty Materials Inc.

Location: Lowell, MA

Purpose: Magnesium Diboride (MgB₂) Superconductors for Portable MRIs

Request: \$3,000,000

Project Description: The objective of this program is to fast-track nanopowder improvements, optimize nanopowder conversion, and to expand the fabrication of Magnesium Diboride.

Potential Recipient: SpectraLights, LLC

Location: Worcester, MA

Purpose: SpectraLights Overwatch 360

Request: \$17,000,000

Project Description: Responding to DOD's energy efficiency goals, targets, and requirements SpectraLights Overwatch 360 can achieve 40 to 80 percent improvement over conventional lighting systems.

Potential Recipient: Spectro, Inc

Location: Littleton, MA

Purpose: Real-Time, In-Field Fluid Diagnostics for Weapons Maintenance

Request: \$5,000,000

Project Description: This technology would reduce costs and waste while protecting weapons systems and the soldiers who operate them. Real-time, in-field evaluation of fluid condition would also allow fleet maintainers to quickly respond to emergency and other maintenance issues, returning weapons systems to theatre without unnecessary delay.

Potential Recipient: Springfield Police Department

Location: Springfield, Massachusetts

Purpose: Gunshot Location System Acquisition

Request: \$1.5 million

Project Description: The requested funding would be used to purchase the ShotSpotter Gunshot Location System (GLS).

Potential Recipient: Staffing for Adequate Fire and Emergency Response (SAFER) Program

Location: Nationwide

Purpose: Increase the number of trained firefighters

Request: \$420 million

Project Description: According to the most recent needs assessment by the National Fire Protection Association, more than half of the nation's fire departments lack key equipment, prevention programs, training and staffing to achieve widely recognized response-time guidelines. This funding will be used to provide direct assistance to fire departments and volunteer firefighter organizations in order meet critical staffing needs.

Potential Recipient: Stanley Street Treatment Center (SSTAR)

Location: Fall River, Massachusetts

Purpose: SSTAR substance abuse treatment services

Request: \$450,000

Project Description: The requested funding would allow SSTAR's Family HealthCare Center to expand primary health care, behavioral health and outpatient substance abuse treatment in the south end of Fall River.

Potential Recipient: Steelcraft Inc.

Location: Millbury MA

Purpose: Supply Chain Logistics for Infectious Disease Prevention

Request: \$3,100,000

Project Description: Requested funds will be utilized to identify, design, fabricate, and commercialize products from antimicrobial copper alloys for healthcare purposes.

Potential Recipient: Stellaris Company

Location: North Billerica, Massachusetts

Purpose: Advanced Photovoltaic Solar Module Manufacturing Line

Request: \$2 million

Project Description: The requested funding will be used to design, manufacture, and place into service a full-size commercial manufacturing line for the production of innovative photovoltaic solar modules whose low production costs will help reestablish domestic solar manufacturing.

Potential Recipient: Sterling & Francine Clark Art Institute

Location: Williamstown, Massachusetts

Purpose: Energy Enhancement Program

Request: \$1.75 million

Project Description: The requested funding will go towards green energy enhancements such as water to water heat pumps, geothermal heating and photovoltaic collection units.

Potential Recipient: Stop It Now!

Location: Northampton, MA

Project: Stop It Now Helpline Expansion

Request: \$500,000

Project Description: The requested funding would be used to expand the Stop It Now! helpline, which provides information, guidelines, and advice for adults that have questions or concerns about child sex abuse.

Potential Recipient: Suffolk University

Location: Boston, Massachusetts

Purpose: Juvenile Justice Center, Suffolk University Law School

Request: \$840,000

Project Description: The requested funding would go to the Juvenile Justice Center at Suffolk University Law School (JJC) to provide legal and supportive services to Boston's indigent youth and their families.

Potential Recipient: SurIDx, Inc.

Location: Wellesley, Massachusetts

Purpose: First Responder Credentialing

Request: \$2,950,000

Project Description: This funding would be used to provide Smartphones with PIV/I interoperable capabilities to commanders and responders, the identity and credentialing infrastructure is expanded to include vital information about a First Responder.

Potential Recipient: Surmet Corporation

Location: Burlington, MA

Purpose: ALON and Spinel Optical Ceramics

Request: \$9,850,000

Project Description: The objective of the overall program is to create an integrated, domestic manufacturing capability to produce Aluminum Oxy-Nitride (ALON) and Spinel Optical Ceramic components in large quantities and sizes at affordable prices.

Potential Recipient: T2 Biosystems

Location: Cambridge, MA

Purpose: Portable Diagnostic System for Bio-Threat Detection

Request: \$2,500,000

Project Description: This funding will be utilized to further the development of a platform that analyzes a small sample of a soldier's blood, saliva, urine, or other biofluid. This analysis will reveal details regarding the warfighter's health status, ranging from infectious agents to monitoring levels of metabolites such as creatinine or protein biomarkers.

Potential Recipient: Tetrphase Pharmaceuticals

Location: Watertown, MA

Purpose: Treatments for *Acinetobacter baumannii* (TAB)

Request: \$4,700,000

Project Description: The objective of this research is to identify a new class of broad-spectrum drugs to combat infections with multidrug-resistant *A. baumannii*.

Potential Recipient: Textron Systems Corporation

Location: Wilmington, MA

Purpose: Remote Medical Resupply/Cargo Delivery – Universal Aerial Delivery Dispenser

Request: \$5,000,000

Project Description: This funding will support the continued research of a Universal Aerial Delivery Dispenser (U-ADD). The Universal Aerial Delivery Dispenser is a multi-purpose GPS guided dispenser that can precisely deploy various types of air delivered lethal and non-lethal payload and other cargo from high altitudes.

Potential Recipient: Textron Systems Corporation

Location: Wilmington, MA

Purpose: Clean Area Weapon (CLAW)

Request: \$5,000,000

Project Description: Funding from this request will be used to qualify the Clean Area Weapon (CLAW) production design as a replacement for the CBU-87/103 inventory, enabling the Air Force to stay in front of the cluster weapons issue.

Potential Recipient: Textron Systems Corporation

Location: Wilmington, MA

Purpose: Tactical RPG Protection System (TRAPS)

Request: \$10,000,000

Project Description: Tactical RPG Protection System (TRAPS) is an airbag protection system designed to defeat RPGs by using non-lethal countermeasures to neutralize enemy threats against light military vehicles by employing a detection technology and modified airbags. This funding request supports the integration of TRAPS onto M-ATV/Stryker vehicles for use in Afghanistan.

Potential Recipient: TIAX LLC

Location: Cambridge, MA

Purpose: Safe/Fail-Safe Lithium Ion Battery

Request: \$7,000,000

Project Description: This funding will be utilized to demonstrate new safety technologies in large-format, fail-safe lithium-ion battery packs that are directly relevant to U.S. Navy and civilian platform requirements. The objective of this research is to engineer a system that will develop an “early warning” detection system that will trigger emergency means of increasing heat transfer out of the affected cell and prevent the short from causing a thermal runaway.

Potential Recipient: Title X family planning programs at the Department of Health and Human Services

Location: Nationwide

Purpose: to help provide family planning services to five million low-income women and men at more than 4,500 health centers

Request: \$394 million

Project Description: This funding would be used to provide high-quality family planning services and other preventive health care such as Pap tests, breast exams, and HIV tests

Potential Recipient: Tourette Syndrome Public Health Education and Research Program at the Centers for Disease Control and Prevention (CDC)

Location: Nationwide

Purpose: to increase awareness about Tourette Syndrome and improve treatment options

Request: \$2 million

Project Description: The program was created to increase recognition and diagnoses of TS, decrease the stigma attached to the disorder, and facilitate appropriate, effective treatments to those with TS.

Potential Recipient: TPR Media, LLC

Location: Jamaica Plain, MA

Purpose: Development of a Multi-Use Electronic Platform for Patient/Provider Communications

Request: \$1,800,000

Project Description: This funding will be utilized to further develop a multi-use platform for patient/provider communications within the Military Health System (MHS).

Potential Recipient: Trex Enterprises Corporation

Location: West Hatfield, MA

Purpose: Brownout Situational Awareness Sensor (BSAS)

Request: \$7,500,000

Project Description: The requested funds will continue development an on-going flight testing of the Brownout Situational Awareness Sensor System.

Potential Recipient: TRIO program at the Department of Education

Location: Nationwide

Purpose: to identify and provide services for disadvantaged students

Request: \$120 million

Project Description: The requested funding would go towards outreach and student services programs for low-income individuals, first-generation college students, and individuals with disabilities to help them develop from middle school to post-baccalaureate programs.

Potential Recipient: Triton Systems, Inc.

Location: Chelmsford, MA

Purpose: Green Logistics Using Advanced Composite JMIC-UltraLight

Request: \$4,000,000

Project Description: This project will fund the production, testing, tracking, improvement, and cost reduction necessary to demonstrate the advantages of the JMIC-UltraLight with DOD customers and users.

Potential Recipient: Triton Systems, Inc.

Location: Chelmsford, MA

Purpose: Moldable Ceramic Composite for Tactical Vehicle Protection

Request: \$2,000,000

Project Description: This funding will be used to develop a moldable and adhesive material with superior resistance to ballistic penetration that fills critical current and future military system needs in regard to the in theater up-armor of complex vehicle shapes and in field armor repair of light tactical vehicles.

Potential Recipient: Triton Systems, Inc.

Location: Chelmsford, MA

Purpose: Printable Wireless Sensors in Materials

Request: \$4,000,000

Project Description: Triton Systems, in collaboration with Marquette University, plans to develop, model, test and transition a family of direct-write (that is, printable), wireless, health-monitoring sensors for seamless integration within composite structures.

Potential Recipient: The Trust for Public Lands

Location: Hadley, Massachusetts

Purpose: Silvio O. Conte National Fish and Wildlife Refuge, Fort River Division, Massachusetts: Fort River V (Goulet Tract)

Request: \$2 million

Project Description: This funding would be used to acquire a 159-acre tract which will become part of the Fort River Division of the Conte Refuge. This tract is a prime grassland bird habitat and part of an important conservation mosaic.

Potential Recipient: Tufts Medical Center, Boston University

Location: Boston, MA

Purpose: Consortium for Public Health and Medical Preparedness Disaster Planning

Request: \$10,000,000

Project Description: This project will develop evidence-based expertise in public health and healthcare under crisis including triage, crisis response procedures and practices, crisis and disaster management, incident and unified command, and health and human services supporting infrastructures in disasters.

Potential Recipient: Tufts University

Location: Medford, Massachusetts

Purpose: Jean Mayer Human Nutrition Research Center on Aging (HNRCA)

Request: \$1 million

Project Description: HNRCA is a USDA research facility operated in conjunction with Tufts University that is dedicated to improving human nutrition science. These funds are needed to prevent research cutbacks.

Potential Recipient: Tufts University

Location of project: Boston, Massachusetts

Purpose: Jean Mayer Human Nutrition Research Center on Aging at Tufts University: Prevention of Cognitive Decline and Dementia in Elders using Nutritional Capabilities

Request: \$1 million

Project Description: The requested funding would be used to support their Neurocognition and Neuroscience program to begin a multiyear study that will lead to the prevention of cognitive

decline and dementia in elders using the nutritional, neuroscience, and neutrogenomic/personalized nutrition capabilities of the Center.

Potential Recipient: Tufts University

Location: Middle East and North Africa, United States

Purpose: The Talloires Network

Request: \$300,000

Project Description: The Talloires Network is an international initiative that works to works to ignite civic engagement within institutions of higher education. This funding would help them expand their programming in the Middle East and North Africa. Funds would support travel costs for trainers from the US and the Middle East, production of training materials in English and local languages, and a select number of travel scholarships for participants from the region.

Potential Recipient: United States Air Force

Location: Boston, MA

Purpose: Mental Health Clinic Addition at Hanscom AFB

Request: \$2.9 million

Project Description: This project will renovate Hanscom's Mental Health Clinic which is currently located in a unsuitable facility.

Potential Recipient: United States Army (Reserves)

Location: Groton, MA

Purpose: Automated Record Fire Range at Devens Reserve Forces Training Area

Request: \$4.7 million

Project Description: To modernize the range which is used to train and test individual Soldiers on the skills necessary to identify, engage and defeat stationary infantry targets for day/night qualification requirements with their individual weapons.

Potential Recipient: United States Green Parking Council (USGPC)

Location: Nationwide

Purpose: Green Garage Initiative / Certified Green Garage

Request: \$500,000

Project Description: The USGPC would use the requested funds to develop accreditation standards for the “Certified Green Garage” program; these standards will identify steps existing garages must take during a retrofit to achieve “Certified Green Garage.”

Potential Recipient: United States Lightship Museum

Location: Boston, Massachusetts

Purpose: to rescue, restore & preserve a LV-112 lightship

Request: \$275,000

Project Description: The funds will be used to cover the repair and restoration of the famed Lightship/LV-112 — a National Historic Landmark and the largest U.S. lightship ever built — so that it can be reestablished as a floating museum and learning center in its historic home port of Boston, where it will be open to the general public.

Potential Recipient: United Teen Equality Center

Location: Lowell, Massachusetts

Purpose: Fresh Roots Local Agriculture Sustainability Program

Request: \$250,000

Project Description: This program will provide intensive employment and life-skills training to underserved youth ages 16-21. Through Fresh Roots, youth process fresh ingredients—much of it grown on UTEC's farm—to create healthy meals and marketable goods to share with the community at farmer's markets, sales to local businesses, or as donations to feed hungry teens.

Potential Recipient: University of Massachusetts – Amherst

Location: Amherst, Massachusetts

Purpose: Bioactive Foods Research for Health and Food Safety

Request: \$525,000

Project Description: This funding will help create the Research Center for Health and Wellness for the discovery, characterization and utilization of bioactive compounds in food specifically designed to promote health, wellness and food safety.

Potential Recipient: University of Massachusetts - Amherst

Location: Amherst, MA

Purpose: Development of Enabling Chemical Technologies for Power from Green Sources

Request: \$2,500,000

Project Description: This funding will develop hybrid organic-inorganic composite materials that have the potential to deliver competitive conversion efficiencies at lower cost and lighter weight relative to solid state devices.

Potential Recipient: University of Massachusetts - Amherst

Location: Amherst, Massachusetts

Purpose: Large Millimeter Telescope LMT

Request: \$750,000

Project Description: The requested funding would complete the project – making the LMT the largest research instrument of its kind. UMass will benefit from their participation in this project by gaining access to a world-leading telescope that will further scientific discovery and provide new opportunities for student training.

Potential Recipient: University of Massachusetts – Amherst

Location: Amherst, Massachusetts

Purpose: New Laboratory Science Building

Request: \$5 million

Project Description: The requested funds will go towards the construction of the New Laboratory Science Building to support research functions in the Life Sciences.

Potential Recipient: University of Massachusetts - Amherst

Location: Amherst, MA

Purpose: Radar Network Safety Infrastructure

Request: \$2,500,000

Project Description: The requested funds will be utilized to research, develop and test dense radar network technology. This technology will address coverage gaps in surveillance of the national air space

Potential Recipient: University of Massachusetts – Boston

Location of project: Boston, Massachusetts

Purpose: Childhood Developmental Science Center

Request: \$500,000

Project Description: The Developmental Sciences Research Center at UMass Boston would use the funds to bring researchers together with day-to-day practitioners (teachers, counselors, social workers, day care providers, nurses and physicians who work with young children and adolescents) to apply successful research findings to the care of children in urban environments.

Potential Recipient: University of Massachusetts – Boston

Location of project: Boston, Massachusetts

Purpose: Go Kids: Childhood obesity programs and research initiative

Request: \$1 million

Project Description: The requested funds would be used to strengthen and expand the innovative programs at GoKids Boston for childhood obesity research and fitness programs. The funding would be used to provide youth 8-18, with instruction and support to become more physically active, improve fitness, eat nutritiously, and gain self-confidence.

Potential Recipient: University of Massachusetts – Dartmouth

Location: Carver, Massachusetts

Purpose: Cranberry/Blueberry Pest Control, MA

Request: \$160,000

Project Description: The requested funds will allow scientists at the University of Massachusetts to assist cranberry farmers in increasing productivity while effectively controlling pests in a more environmentally sensitive manner.

Potential Recipient: University of Massachusetts – Lowell

Location: Lowell and North Billerica, Massachusetts

Purpose: Advanced Electron Accelerator for Non-Intrusive Detection of Weapons of Mass Destruction

Request: \$3,960,000

Project Description: University of Massachusetts Lowell (UML) in collaboration with Passport Systems Inc. would use the requested funding to deploy a state-of-the-art electron accelerator and detection modules for the identification of Weapons of Mass Destruction, contraband, explosives, toxic and radiological materials.

Potential Recipient: University of Massachusetts - Lowell

Location: Lowell, MA

Purpose: Nanomanufacturing of Integrated Smart Materials Systems

Request: \$4,000,000

Project Description: This program will focus on developing innovative nanomanufacturing processes for new materials that will serve as platforms for enhanced systems for warfighter clothing and equipment, as well as vehicle structures. Additionally, the Nanomanufacturing of Integrated Smart Materials Systems will further the development of fabrication of nanoenhanced polymer based structural materials for lighter, stronger army vehicles.

Potential Recipient: University of Massachusetts – Lowell

Location of project: Lowell, Massachusetts

Purpose: UMass Lowell Cooperative Education Program

Request: \$400,000

Project Description: The requested funding would be used to establish a cooperative education program at the University of Massachusetts Lowell for both the undergraduate and graduate level in areas that are vital to economic development. The funding is the second year of a three-year grant that allows for hiring 6 Co-op professionals with UMass Lowell assuming responsibility for salaries incrementally as well as provide for Co-op Stipends for students to work in start-up firms, which will allow students to learn in entrepreneurial environments as well as assisting in the development of start-ups.

Potential Recipient: University of Massachusetts Medical Center

Location of project: Waltham, Massachusetts

Purpose: The Eunice Kennedy Shriver Center Renovation

Request: \$1.5 million

Project Description: The requested funding would support the renovation of the Center's infrastructure, including on-site research laboratories. Today, the Shriver Center consists of approximately 60,000 square feet of dedicated research space. However, the deteriorating physical plan and outdated equipment and research space is in desperate need of renovation as the infrastructure has not been updated since the center was originally constructed in the late 1960s.

Potential Recipient: University of Massachusetts Medical School

Location: Worcester, Massachusetts

Purpose: RNAi Research

Request: \$2 million

Project Description: To support research associated with RNAi which is a mechanism that inhibits gene expression at the stage of translation or by hindering the transcription of specific genes.

Potential Recipient: University of Massachusetts Medical School

Location of project: Worcester, Massachusetts

Purpose: UMass Medical School Advanced Therapeutics Cluster

Request: \$5 million

Project Description: The requested funding would support the development of the Albert Sherman Center Project, the centerpiece of which is the UMass Advanced Therapeutics Cluster (UMATC), which is the signature program within the new campus facility. The UMATC has a mission to apply the knowledge emanating from the latest biomedical discoveries to develop new ways to treat disease.

Potential Recipient: University of Massachusetts Memorial Health Care

Location of project: Worcester, Massachusetts

Purpose: Integrated Ambulatory Electronic Medical Record and Radiology Imaging Platform

Request: \$2 million

Project Description: The requested funding would be used to support the installation of an ambulatory electronic medical record (EMR) that includes a full history of a patient's radiology studies to improve patient care delivery, reduce medical errors, and enhance cost-effectiveness. This computerized network would allow patient medical records and associated radiology studies to be sent along a secure connection from four community hospitals in Clinton, Palmer, Leominster and Marlboro, MA and one rural health center in Barre, MA to its major academic health center in Worcester, MA.

Potential Recipient: University Sustainability Programs

Location of project: Nationwide

Purpose: Support sustainability education in higher education

Request: \$25 million

Project Description: The requested funding would be used to help our nation's higher education institutions develop sustainable practices and academic programs to equip the coming generation of scientists, engineers, planners, and business professionals with the knowledge vital to meet the global challenges we face as a nation.

Potential Recipient: Urban College

Location of project: Boston, Massachusetts

Purpose: Urban Project for Student Success

Request: \$750,000

Project Description: The requested funding would be used to continue to support and provide college level certificate and associate degree programs in Early Childhood Education, Human Services and gerontology for adult, non-traditional students from urban and low income backgrounds. The project will sustain development of technology and enhance system-wide assessment and tracking of student learning, retention, outcome data, and academic and employment success rates.

Potential Recipient: Variation Biotechnologies Inc.

Location: Cambridge, MA

Purpose: Oral Shigellosis Vaccine

Request: \$1,700,000

Project Description: The project objective is to combine an oral vaccine delivery platform together with the shigellosis vaccine in order to improve disease prevention in deployed military personnel.

Potential Recipient: Velico Medical, Inc.

Location: Beverly, MA

Purpose: Spray Dried Plasma

Request: \$3,400,000

Project Description: This project will develop a simple method for preparing spray dried plasma in a sterile, closed-system, continuous flow tabletop device.

Potential Recipient: Wakonda Technologies Inc.

Location: Woburn, Massachusetts

Purpose: Advanced Superconducting Wire Technologies

Request: \$2.4 million

Project Description: The requested funding would go to improve the performance of a virtual single crystal (VSC) substrate to provide existing superconductor wire and device manufacturers with an advanced substrate for superconducting wire production that will yield operational benefits on a reliability, performance, and cost basis for smart grid power generation and transmission and distribution applications.

Potential Recipient: Wakonda Technologies Inc.

Location: Woburn, MA

Purpose: Low Observable Solar Power System

Request: \$3,750,000

Project Description: This project will develop a low observable solar power system for operational deployment in unmanned ground systems such as remote sensors.

Potential Recipient: Wakonda Technologies Inc.

Location: Woburn, MA

Purpose: High Efficiency Solar Generators for Mission Critical Electric Loads

Request: \$2,750,000

Project Description: This program will fund the continued development of flexible solar cells with increased efficiency. The technology will be demonstrated and will allow the low-cost, high volume manufacturing of flexible solar arrays for deployment in critical military applications.

Potential Recipient: Warren Pumps Inc.

Location: Warren, MA

Purpose: Advanced Fuel Filtration System

Request: \$4,000,000

Project Description: This funding will support the development of an Advanced Fuel Filtration System (AFF) system.

Potential Recipient: Westfield State College

Location: Southbridge, Massachusetts

Purpose: Westfield State College Law Enforcement Training Program

Request: \$700,000

Project Description: The requested funding would be used to establish a New England regional education center to meet the training needs of law enforcement and homeland security professionals through a partnership between SIG Sauer and Westfield State College.

Potential Recipient: Westfield State College

Location of project: Westfield, Massachusetts

Purpose: Bachelor of Science in Nursing Degree Development Program

Request: \$376,000

Project Description: The requested funds would be used to develop a nursing program at Westfield State College to provide much needed skilled nurses to the Commonwealth.

Potential Recipient: Western Massachusetts Chapter of the National Tooling and Machining Association (WMNTMA)

Location: Hampden County, Massachusetts

Purpose: MA Center for Advanced Precision Manufacturing Technology

Request: \$4,200,000

Project Description: The requested funds will enhance the manufacturing industries ability to stay abreast of the evolving technological needs of the Department of Defense.

Potential Recipient: Western New England College

Location: Springfield, MA

Purpose: Humanoid Robotics for Enhanced Mobility, Agility and Access in Complex Urban Environments

Request: \$4,000,000

Project Description: This project will demonstrate the feasibility of humanoid robots operating in complex environments that contain obstacles and rough terrain, taking humanoid robots one very important step closer to real world military and commercial applications.

Potential Recipient: Weston Geophysical Corp.

Location: Lexington, MA

Purpose: Nuclear Test Monitoring Seismic Research

Request: \$5,000,000

Project Description: The Air Force has operational requirements to monitor foreign clandestine nuclear tests. The Air Force Research Laboratory (AFRL), Hanscom AFB, MA, conducts the only DOD seismic research program to support this Air Force mission.

Potential Recipient: Western New England College

Location: Springfield, Massachusetts

Purpose: Next Generation Wind Turbine

Request: \$700,000

Project Description: To manufacture a new generation of Wind Turbines that exploits jet-age advanced Fluid Dynamics and lean manufacturing techniques to reduce the Cost of Electricity (COE) below coal generation while reducing land area requirements.

Potential Recipient: Western New England College

Location: Springfield, Massachusetts

Purpose: Western the New England College Entrepreneurship Initiative

Request: \$750,000

Project Description: The funding would be used to meet the needs of the small business community by creating a virtual community to support local entrepreneurs; delivering more of its services via the Internet; and launching a microfinance loan program that would allow for more growth of small start-up businesses in Greater Springfield, Massachusetts.

Potential Recipient: WGBH Educational Foundation

Location of project: Boston, Massachusetts

Purpose: LOOP: WGBH's Children's Sustainability Project

Request: \$500,000

Project Description: Funds are requested to help launch LOOP, a multi-platform project designed to improve the environmental and scientific literacy of children ages 6-9 and their families. Funds would be used to produce a national TV show that embeds the curriculum through a fantastic, original animated story and through motivating live-action videos featuring

families and children, a website that provides a 24/7 environment for kids to investigate the ecosystem worlds they have seen on the TV series, and a “Get to Know Your World” initiative including hands-on science activities and camp curriculum.

Potential Recipient: Wheelock College

Location: Boston, Massachusetts

Purpose: Building a New Generation of Math and Science Educators – Phase II

Request: \$900,000

Project Description: The requested funding will support the Math and Science Education Initiative (MSEI) that provides math and science in-service training for preschool to 6th grade teachers improving the preparation of pre-service teachers in math and science instruction.

Potential Recipient: Wheelock College

Location of project: Boston, Massachusetts

Purpose: Early Childhood Higher Education Access Project

Request: \$510,000

Project Description: The requested funding would go toward the Phase II of this project. Wheelock will collaborate with the city of Boston, early education and care agencies, Bunker Hill and Roxbury Community Colleges to assist early childhood practitioners earn an Associate’s degree from the community college and then transfer their undergraduate credits to Wheelock for the remaining two years to earn a four-year bachelor’s degree.

Potential Recipient: Wheelock College

Location: Boston, Massachusetts

Purpose: Going Green: Moving Toward an Energy-Efficient Campus (Phase II)

Request: \$600,000

Project Description: This funding will go towards replacing the windows of the library, the roof of the Longwood Residence Hall, and the heating system and lighting in the theatre, which gets significant use by both Wheelock, the Boston Public Schools and community at large.

Potential Recipient: The WhizKids Foundation, Inc

Location of project: Statewide

Purpose: Bringing Exciting and Challenging Math, Science, Engineering and Entrepreneurship programs to Massachusetts Youth

Request: \$300,000

Project Description: The requested funding will support challenging and exciting STEM programs to students in public schools. WhizKids will be able to add 5-8 schools to their current number of 15 schools with new funds.

Potential Recipient: Windemere Rehabilitation Facility

Location of project: Oak Bluffs, Massachusetts

Purpose: Windemere Rehabilitation Facility: construction, renovation, and equipment

Request: \$250,000

Project Description: The requested funds will be used to rehabilitate elderly long term care facility. Computerization and electronic record infrastructure is also necessary so that patient records can be easily transferred to other medical providers.

Potential Recipient: Wind Energy Technologies Program at the Department of Energy

Location: Nationwide

Purpose: Supports wind energy research and development

Request: \$170.5 million, with an additional \$16 million through the Office of Electricity Delivery and Energy Reliability for power system integration, and transmission research and planning.

Project Description: The Wind Energy Technologies Program supports wind energy research and development at the national, state, and local levels. This funding will help produce clean energy, new jobs, and significant reductions in global warming pollution.

Potential Recipient: Worcester Polytechnic Institute (WPI)

Location: Worcester, Massachusetts

Purpose: Indoor Personnel Locator, Tracking and Physiological Status Monitoring System for First Responders

Request: \$4 million

Project Description: The requested funding would be used to further research and develop a wearable, wireless, 3-D, low cost, personnel locator, tracking and monitoring system for first responders.

Potential Recipient: Worcester Polytechnic Institute

Location: Worcester, MA

Purpose: The Center for Neuroprosthetics and BioMEMS

Request: \$4,700,000

Project Description: The technologies produced from this research will improve prosthetic motion control and sensory feedback, facilitate bone and soft tissue integration leading to better prosthetic function and improved infection control, and enable 're-wiring' of severed nerves. This research is aligned with the needs and interests of several programs including the Army's Military Amputee Research Program (MARF) at the Telemedicine and Advanced Technology Research Center (TATRC).

Potential Recipient: Xenith, LLC

Location: Lowell, MA

Purpose: Blunt Force & Shock Wave Trauma Protection for Warfighters

Request: \$500,000

Project Description: The end goal of this research is to fully integrate improved shockwave mitigation and blunt force trauma protection into applicable clothing and equipment, such as helmets.

Potential Recipient: Year Up Boston

Location of project: Boston, Massachusetts

Purpose: Expanding Opportunity for Urban Adults

Request: \$500,000

Project Description: The requested funds would support the expansion of curriculum development, and career placement services for urban young adults in Boston. Year Up is a one-year intensive education and job training program for urban young adults ages 18 to 24. They

connect urban youth to the economic mainstream via access to quality education and job skills training. Year Up's high support, high expectation model combines marketable job skills, stipends, internships, college credit, and several levels of support to place these young adults on a viable path towards economic self-sufficiency. Students then apply their skills and gain a valuable professional experience during a six-month internship with one of our many corporate partners.

Potential Recipient: YouthBuild USA

Location of project: Nationwide – based in Somerville, Massachusetts

Purpose: YouthBuild Programming

Request: \$120 million

Project Description: The requested funding will support this youth and community development program that simultaneously addresses core issues facing low-income communities: housing, education, employment, crime prevention, and leadership development. In YouthBuild programs, low-income young people ages 16-24 work toward their GEDs or high school diplomas, learn green job skills and serve their communities by building affordable housing. In the process they can transform their own lives and roles in society.

Potential Recipient: YWCA Boston and YWCA Cambridge

Location: Boston, Cambridge and Somerville, Massachusetts

Purpose: Crime Reduction Initiative

Request: \$350,000

Project Description: Funding would be used to expand the YWCA's professionally-facilitated, interracial community improvement program for disenfranchised neighborhoods, adult residents, proven-risk youth, young adults involved in the criminal justice system and law enforcement officials.

Potential Recipient: YWCA Greater Lawrence

Location: Lawrence, Massachusetts

Purpose: Initiative for At-Risk Youth

Request: \$800,000

Project Description: This project is designed to address significant issues of violent behavior, gang involvement and early and/or coerced sexual activity that stem from the lack of youth engagement in our community.

Potential Recipient: YWCA Greater Newburyport

Location of project: Newburyport, Massachusetts

Purpose: Encore Breast and Cervical Cancer Outreach and Support Services

Request: \$250,000

Project Description: The requested federal funding would be used to support the Encore Breast and Cervical Cancer Outreach and Support Services program. The program includes outreach to physicians and women at risk of delaying diagnostic and preventative medical services, participant education and networking, group exercise essential to facilitate recovery from cancer treatments for participants, transportation to medical appointments, and when necessary, child care during medical appointments.

Potential Recipient: YWCA Malden

Location: Malden, Massachusetts

Purpose: Financial Education and Advancement for Micro-Enterprises and At-Risk Families

Request: \$300,000

Project Description: To meet the growing needs of local families, the YWCA will use the requested funding to build upon its proven financial literacy program by providing significant intervention and support to at least 200 additional families and micro-enterprises within five communities.